# CONSTRUCTION PLANS

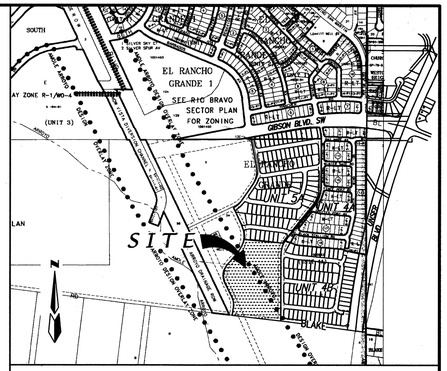
# FOR

# *EL RANCHO GRANDE I*

# *UNIT 5B*

# ALBUQUERQUE, NEW MEXICO






VICINITY MAP — ZONE ATLAS M-9 & N-9

SCALE: NONE

## GENERAL NOTES

### NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #6.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. FIVE (5) WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION COORDINATION ENGINEER (~~768-2551~~) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS. 924-3400
6. ALL WORK AFFECTING ARTERIAL ROADWAYS REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
7. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO THE SAME LOCATION AS WAS EXISTING, OR AS INDICATED BY THIS PLAN SET.
8. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT TO COVER THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.

   CONTRACTOR SHALL RECORD DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS CONSTRUCTED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAVE BEEN RECORDED.
10. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
11. CONTRACTOR SHALL COORDINATE WITH THE CITY OF ALBUQUERQUE WATER SYSTEMS DIVISION (857-8200) SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING PUBLIC WATER OR SEWER UTILITIES. EXISTING VALVES TO BE OPERATED BY CITY PERSONNEL ONLY. CONTRACTOR SHALL CONTACT THE WATER SYSTEMS DIVISION SEVEN (7) WORKING DAYS PRIOR TO NEEDING VALVES TURNED ON OR OFF.
12. FOR STORM DRAIN CONSTRUCTION, RCP JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.

All sanitary is PVC SDR35/onsite
All waterline PVC 9900
Alan T. Odgers

### THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- [x] ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- [x] BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- [ ] TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE PROJECT ENGINEER.
- [x] SIDEWALK AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- [ ] IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- [x] ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.

*CAUTION:*
*NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. ALL EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE APPROXIMATE LOCATION ONLY. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATIONS TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.*

dmg
D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P. O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 6 | 6 | 4 | 5 | 6 | . | 8 | 9 | 6 | 1 | 0 | 3 | | |

APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY CONSTRUCTION ENGINEER
DATE 11/7/02

## INDEX TO DRAWINGS



**SURVEYOR'S CERTIFICATION**

"I, Timothy Aldrich, a duly qualified Registered Professional Land Surveyor under the laws of the State of New Mexico, do hereby certify that the 'as-built' information shown on these drawings was obtained from field construction and 'as-built' surveys performed by me or under my supervision, that the 'as-built' information shown on these drawings was added by me or under my supervision, and that this 'as-built' information is true and correct to the best of my knowledge and belief." Aldrich Land Surveying is not responsible for any of the design concepts, calculations, engineering, or intent of the record drawings.

04-18-03
Timothy Aldrich, P.S. No. 7719 — Date

NEW MEXICO 7719 PROFESSIONAL LAND SURVEYOR

**CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS**

I, Gregory J. Krenik, NMPE 11929, of the firm Mark Goodwin & Associates, PA, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by ALS, Inc., NMPS number 7719.

GREGORY JAMES KRENIK 11929 REGISTERED PROFESSIONAL ENGINEER
11-28-02
seal & signature

DRB NO. 1001918

| REV. | SHEETS | CITY ENGINEER | DATE | USER DEPARTMENT | DATE | USER DEPARTMENT | DATE |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

| ENGINEERS STAMP & SIGNATURE | APPROVALS | ENGINEER | DATE |
|---|---|---|---|
| GREGORY JAMES KRENIK 11929 REGISTERED PROFESSIONAL ENGINEER 11-28-02 | DRC CHAIRMAN | | 11-27-02 |
| | TRANSPORTATION | | 11-8-02 |
| | WATER/WASTEWATER | | 10/29/02 |
| | HYDROLOGY | | 10/29/02 |
| | CIP | | |
| | CONSTR. MNGMT. | | |
| | CONSTR. COORD. | | 11-27-02 |

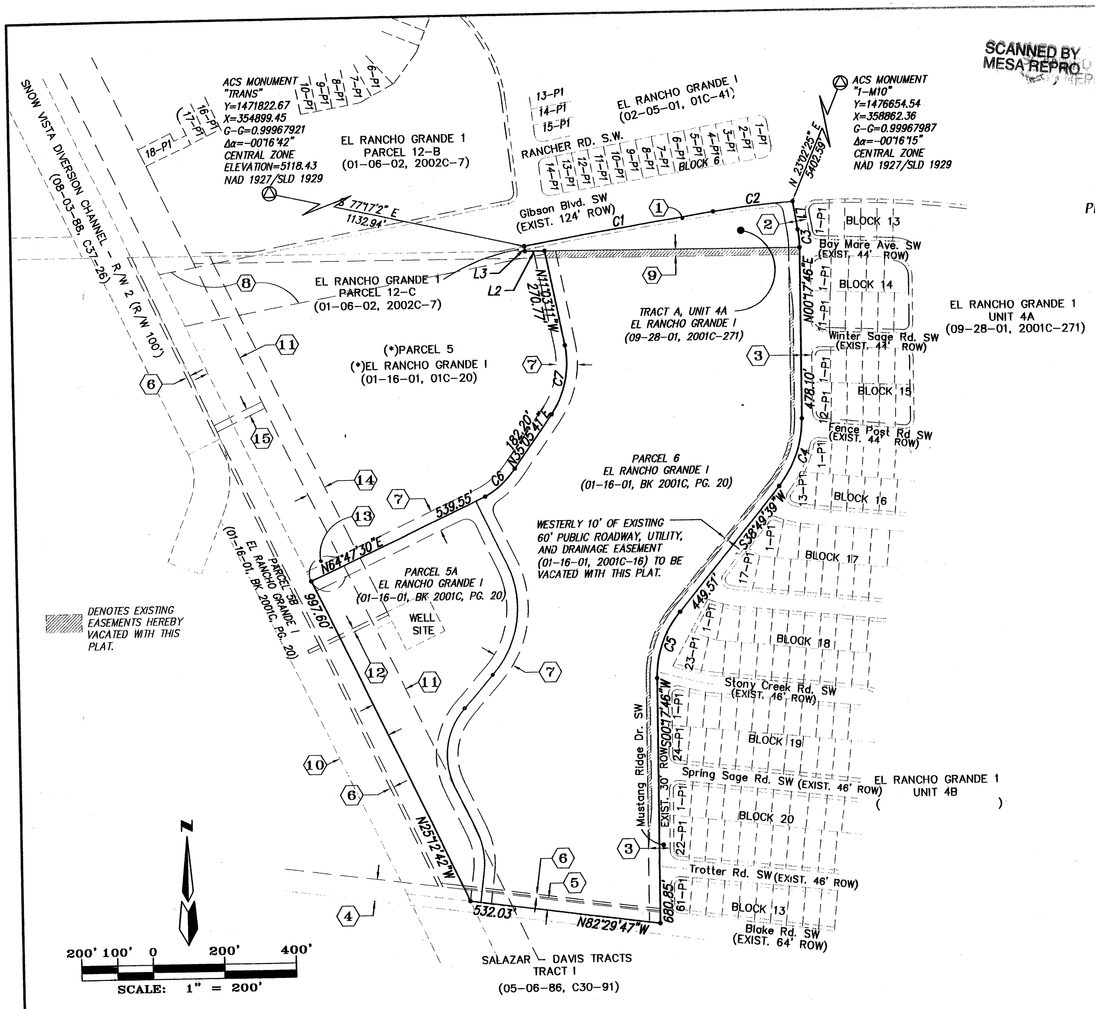
11-4-02

APPROVED FOR CONSTRUCTION
12/2/02
ENGINEER — DATE

CITY PROJECT NO. 645689

SHEET 1 OF 22

A02030EL RANCHO GRANDE 5/ERG5/5BPLANS/2030-5B-TITLE 9-10-02 NHE




SCANNED BY MESA REPRO

PRELIMINARY

PLAT FOR

# EL RANCHO GRANDE I UNIT 5A AND 5B SUBDIVISION

WITHIN THE
TOWN OF ATRISCO GRANT
PROJECTED SECTION 4 TOWNSHIP 9 NORTH, RANGE 2 EAST, NMPM
PROJECTED SECTION 33 TOWNSHIP 10, NORTH, RANGE 2 EAST, NMPM
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
APRIL, 2002

## KEYNOTES

1. EXISTING 10' PNM EASEMENT (01-16-01, 2001C-16)
2. EXISTING 60' PUBLIC ROADWAY, UTILITY & DRAINAGE EASEMENT ( )
3. EXISTING 60' PUBLIC ROADWAY, UTILITY & DRAINAGE EASEMENT ( ) PORTION HEREBY VACATED ( )
4. 60' BLAKE ROAD S.W., NO DEDICATION DOCUMENT AVAILABLE
5. EXISTING 34' PUBLIC ROADWAY, UTILITY & DRAINAGE EASEMENT (01-16-01, 2001C-20)
6. EXISTING 10' PNM OVERHEAD LINE EASEMENT (05-06-86, C30-91)
7. EXISTING 60' PUBLIC ROADWAY EASEMENT (01-16-01, 2001C-20)
8. EXISTING PORTION OF 156' PUBLIC ROADWAY, UTILITY & DRAINAGE EASEMENT ( )
9. EXISTING 20' WATERLINE EASEMENT (DOC NO 85 90123, 10/25/85 BK MISC. 284A PG. 668) PORTION HEREBY VACATED (01410-00000-00092)
10. EXISTING 150' AMOLE ARROYO DRAINAGE RIGHT-OF-WAY ( )
11. EXISTING 100' PNM EASEMENT (D348-43)
12. EXISTING 10' PNM & MST&T EASEMENT (01-17-86, BK.MISC. 312A, PGS. 840 & 850)
13. EXISTING 50' RADIUS TEMPORARY TURNING EASEMENT ( )
14. EXISTING 50' ACCESS & UNDERGROUND WATERLINE EASEMENT (10-25-85, BK.MISC. 284A, PG. 668)
15. EXISTING 20' PERMANENT WATERLINE EASEMENT (10-25-85, BK.MISC. 284A, PG. 668)
16. EXISTING 10' PNM & MST&T EASEMENT (01-17-84, BK.MISC. 81A, PGS. 881-882)

CURVE TABLE

| CURVE | RADIUS | LENGTH | DELTA | TANGENT | CH-BEARING | CHORD |
|---|---|---|---|---|---|---|
| C1 | 19954.00 | 530.77 | 1°31'22" | 265.40 | S80°31'50"W | 530.76 |
| C2 | 2500.00 | 222.41 | 5°05'50" | 111.28 | S83°50'28"W | 222.34 |
| C3 | 300.00 | 51.81 | 9°53'40" | 25.97 | N04°39'04"W | 51.74 |
| C4 | 300.00 | 201.75 | 38°31'53" | 104.86 | N19°33'42"E | 197.97 |
| C5 | 300.00 | 201.75 | 38°31'53" | 104.86 | S19°33'42"W | 197.97 |
| C6 | 250.00 | 114.70 | 26°17'17" | 58.38 | N48°00'23"E | 113.70 |
| C7 | 250.00 | 201.36 | 46°08'53" | 106.50 | N12°01'15"E | 195.96 |

LINE TABLE

| LINE | BEARING | DISTANCE |
|---|---|---|
| L1 | S09°35'54"W | 78.78' |
| L2 | S89°49'19"E | 53.92' |
| L3 | N06°21'05"W | 13.74' |

| Dwg: | base1.dwg | Drawn: | STEPHEN | Checked: | ALS | Sheet | 2 of 8 |
|---|---|---|---|---|---|---|---|
| Scale: | 1" = 50' | Date: | 05/24/02 | Job: | A02030 | | |

# PRELIMINARY PLAT

## EL RANCHO GRANDE I UNIT 5A AND 5B SUBDIVISION

WITHIN THE
TOWN OF ATRISCO GRANT
PROJECTED SECTION 4 TOWNSHIP 9 NORTH, RANGE 2 EAST, NMPM
PROJECTED SECTION 33 TOWNSHIP 10, NORTH, RANGE 2 EAST, NMPM
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
APRIL, 2002

## SUBDIVISION DATA

GROSS ACREAGE. . . . . 33.4456
ZONEATLAS NO. . . . . M-9/N-9
NO. OF EXISTING PARCELS . . . . . 3
NO. OF PARCELS/TRACT/LOTS CREATED. . . . . 1 Parcel/1Tract/150 lots
NO. OF PARCELS ELIMINATED . . . . . 2
AREA DEDICATED TO CITY OF ALBUQUERQUE. . . . . 8.0268AC
DATE OF SURVEY. . . . . SEPTEMBER, 2001

## OWNERS

CURB INC.
6301 INDIAN SCHOOL RD. NE
ALBUQUERQUE, N.M. 87110
(505) 881-9190

## ENGINEERS

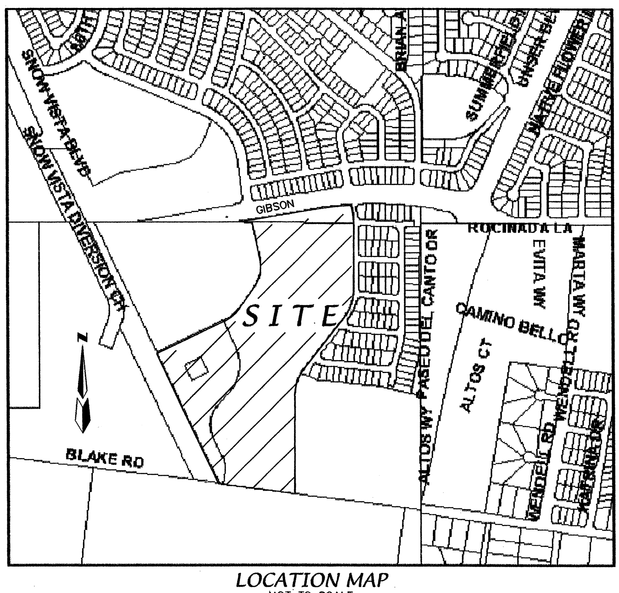
D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

## SURVEYOR

ALDRICH LAND SURVEY
P.O. BOX 30701
ALBUQUERQUE, N.M. 87190-0701
(505) 884-1990

OWNER: CURB INC.

CHARLES HAEGELIN STAN STECKMAN 4-23-02 DATE
VICE PRESIDENT OF CURB INC.




LOCATION MAP
NOT TO SCALE

## PURPOSE OF PLAT

1. SUBDIVIDE TWO PARCELS INTO 150 RESIDENTIAL LOTS, 1 TRACT AND 1 PARCEL
2. DEDICATED RIGHT-OF-WAY AS SHOWN
3. GRANT NEW EASEMENTS AS SHOWN
4. VACATED EASEMENTS AS SHOWN

## LEGAL DESCRIPTION

A tract of land situate within the Town of Atrisco Grant, projected Section 33, Township 10 North, Range 2 East, projected Section 4, Township 9 North, Range 2 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico being all of Parcels 5A and 6, El Rancho Grande I filed in the office of the Bernalillo County Clerk on March 24, 2000, Volume 2000C, Folio 90, and containing 26.8344 acres more or less.

## NOTES

1. UNLESS OTHERWISE NOTED ALL POINTS ARE "SET 5/8" REBAR WITH CAP "ALS LS 7719".
2. ALL STREET CENTERLINE MONUMENTATION SHALL BE INSTALLED AT ALL CENTERLINE PC'S, PT'S, ANGLE POINTS, AND STREET INTERSECTIONS AND SHOWN THUS ▲, WILL BE MARKED BY A FOUR INCH (4") ALUMINUM CAP STAMPED:
   "CITY OF ALBUQUERQUE CENTERLINE MONUMENTATION"
   "DO NOT DISTURB"
   "PLS # 7719".
3. BOUNDARY SHALL BE TIED TO THE NEW MEXICO STATE PLANE COORDINATE SYSTEM AS SHOWN.
4. BASIS OF BEARING SHALL BE NEW MEXICO STATE PLANE GRID BEARINGS.
5. ALL DISTANCES SHALL BE GROUND DISTANCES.
6. MANHOLES WILL BE OFFSET AT ALL POINTS OF CURVATURE, POINTS OF TANGENCY, STREET INTERSECTIONS, AND ALL OTHER ANGLE POINTS TO ALLOW USE OF CENTERLINE MONUMENTATION.
7. ALL OPEN SPACE REQUIREMENTS ARE MET ON THE LOT WITH THE DWELLING.

APPROVED FOR MONUMENTATION AND STREET NAMES

City Surveyor, City of Albuquerque, N.M. 4/24/02 Date

| Dwg: | base1.dwg | Drawn: | STEPHEN | Checked: | ALS | Sheet | 1 of 8 |
|---|---|---|---|---|---|---|---|
| Scale: | 1" = 50' | Date: | 04/22/02 | Job: | A02030 | | |

06 04 56 01 06 01 02 03

Sheet 2 of 22

PRELIMINARY
PLAT FOR

# EL RANCHO GRANDE I UNIT 5A AND 5B SUBDIVISION

WITHIN THE
TOWN OF ATRISCO GRANT
PROJECTED SECTION 4 TOWNSHIP 9 NORTH, RANGE 2 EAST, NMPM
PROJECTED SECTION 33 TOWNSHIP 10, NORTH, RANGE 2 EAST, NMPM
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
APRIL, 2002



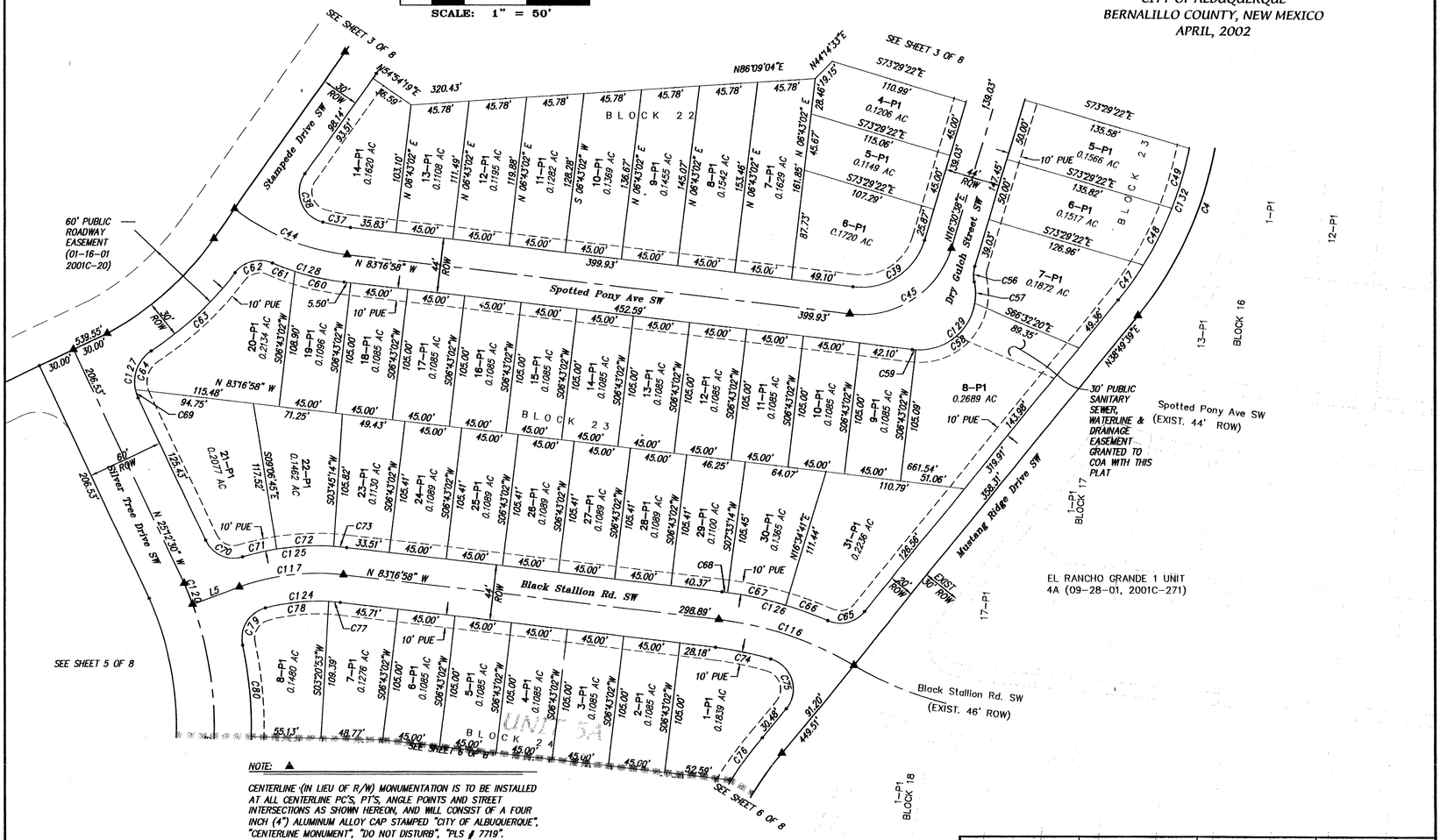
ABBREVIATIONS

10' PUE = PUBLIC UTILITY EASEMENTS GRANTED WITH THIS PLAT

ROW = RIGHT-OF-WAY

ALL STREETS SHOWN HEREON ARE HEREBY DEDICATED AS PUBLIC RIGHT-OF-WAY

SCALE: 1" = 50'




NOTE: ▲

CENTERLINE (IN LIEU OF R/W) MONUMENTATION IS TO BE INSTALLED AT ALL CENTERLINE PC'S, PT'S, ANGLE POINTS AND STREET INTERSECTIONS AS SHOWN HEREON, AND WILL CONSIST OF A FOUR INCH (4") ALUMINUM ALLOY CAP STAMPED "CITY OF ALBUQUERQUE", "CENTERLINE MONUMENT", "DO NOT DISTURB", "PLS # 7719".

| Dwg: base1.dwg | Drawn: STEPHEN | Checked: ALS | Sheet 4 of 8 |
|---|---|---|---|
| Scale: 1" = 50' | Date: 05/24/02 | Job: A02030 | |

PRELIMINARY
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# EL RANCHO GRANDE I UNIT 5A AND 5B SUBDIVISION

WITHIN THE
TOWN OF ATRISCO GRANT
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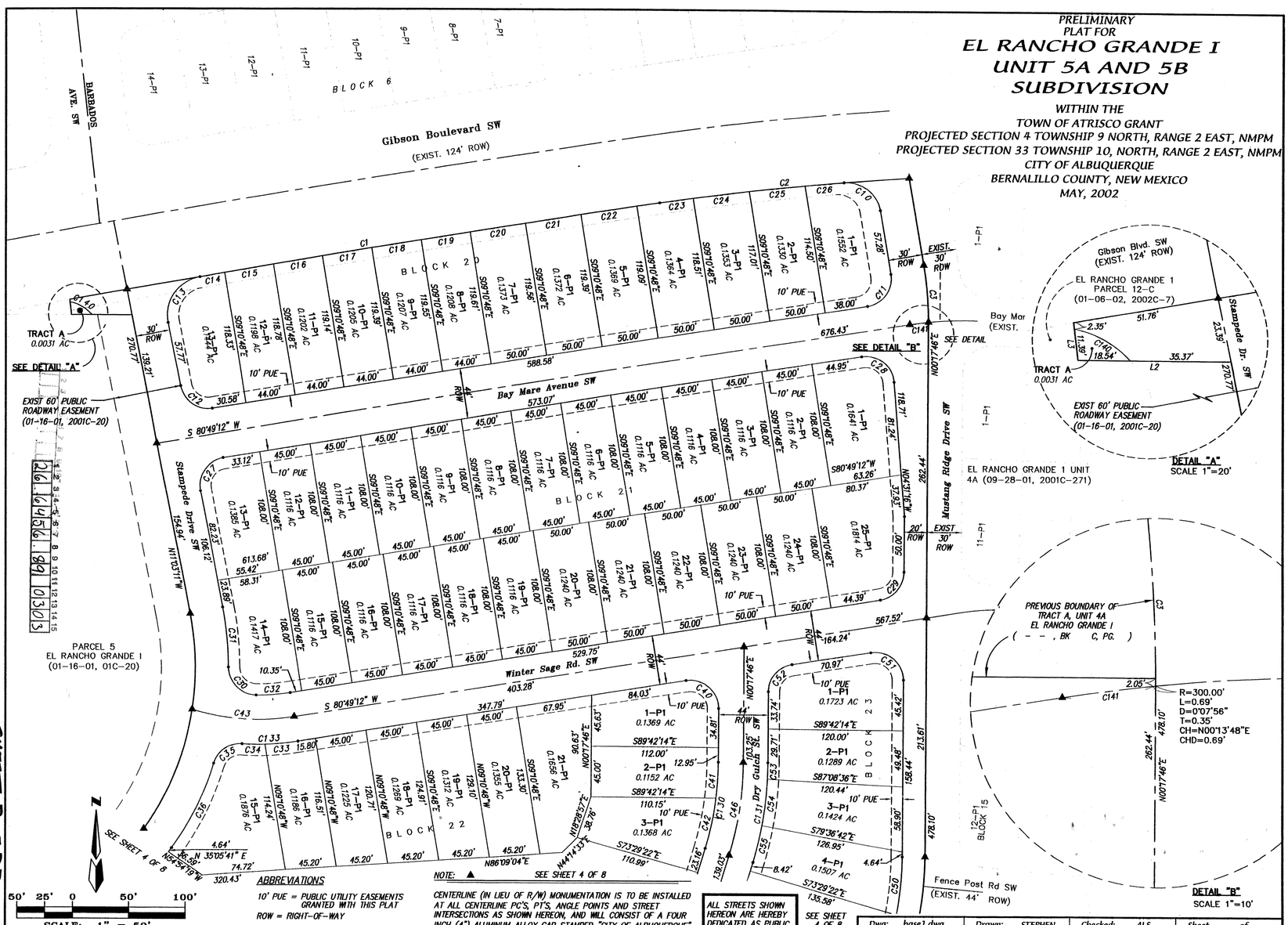
PROJECTED SECTION 33 TOWNSHIP 10, NORTH, RANGE 2 EAST, NMPM
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
MAY, 2002




ABBREVIATIONS

10' PUE = PUBLIC UTILITY EASEMENTS GRANTED WITH THIS PLAT

ROW = RIGHT-OF-WAY

NOTE: ▲ SEE SHEET 4 OF 8

CENTERLINE (IN LIEU OF R/W) MONUMENTATION IS TO BE INSTALLED AT ALL CENTERLINE PC'S, PT'S, ANGLE POINTS AND STREET INTERSECTIONS AS SHOWN HEREON, AND WILL CONSIST OF A FOUR INCH (4") ALUMINUM ALLOY CAP STAMPED "CITY OF ALBUQUERQUE", "CENTERLINE MONUMENT", "DO NOT DISTURB", "PLS # 7719".

ALL STREETS SHOWN HEREON ARE HEREBY DEDICATED AS PUBLIC RIGHT-OF-WAY

SCALE: 1" = 50'

| Dwg: base1.dwg | Drawn: STEPHEN | Checked: ALS | Sheet 3 of 8 |
|---|---|---|---|
| Scale: 1" = 50' | Date: 05/24/02 | Job: A02030 | |

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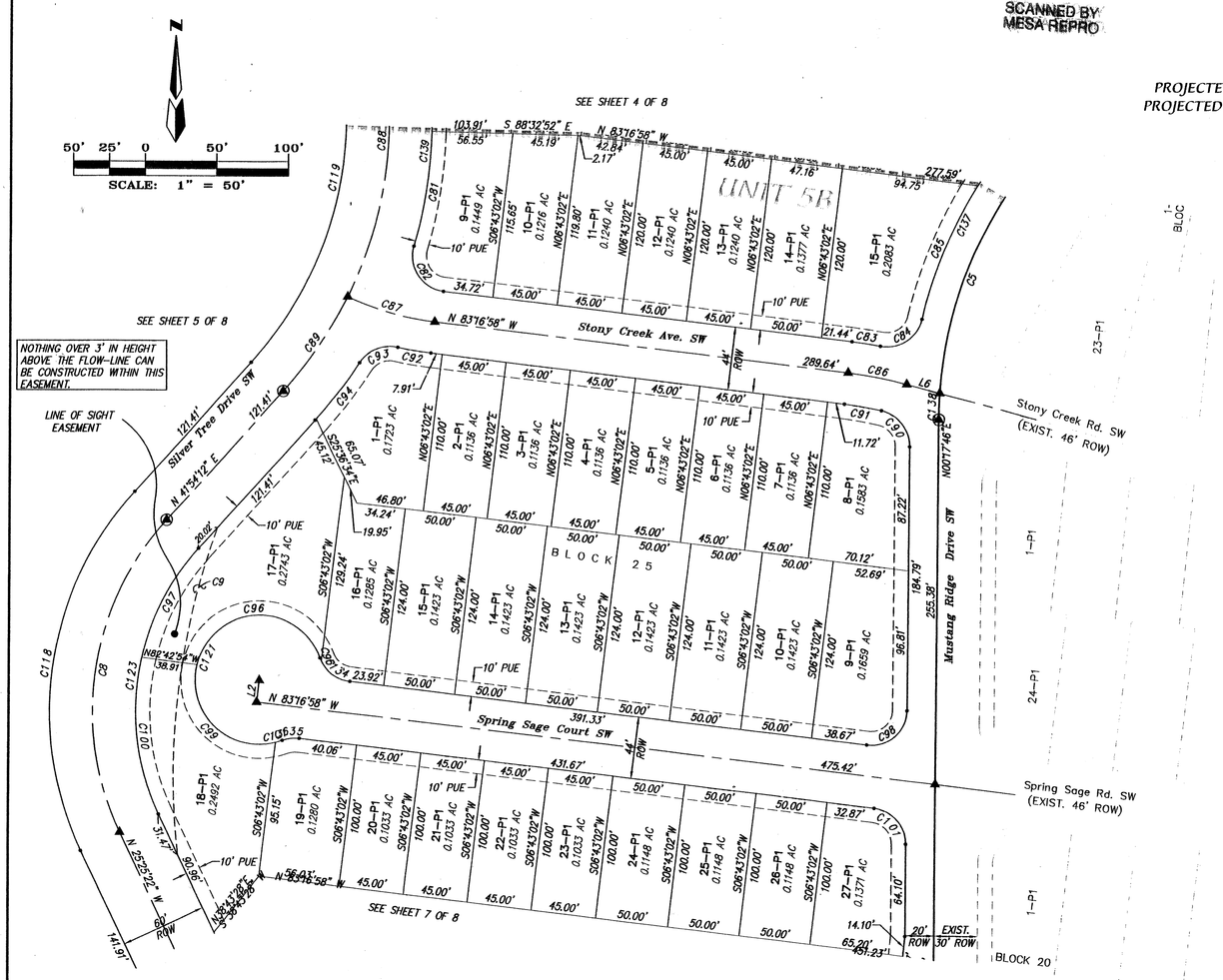
BERNALILLO COUNTY, NEW MEXICO
APRIL, 2002

SCANNED BY MESA REPRO

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| Dwg: base1.dwg | Drawn: STEPHEN | Checked: ALS | Sheet 6 of 8 |
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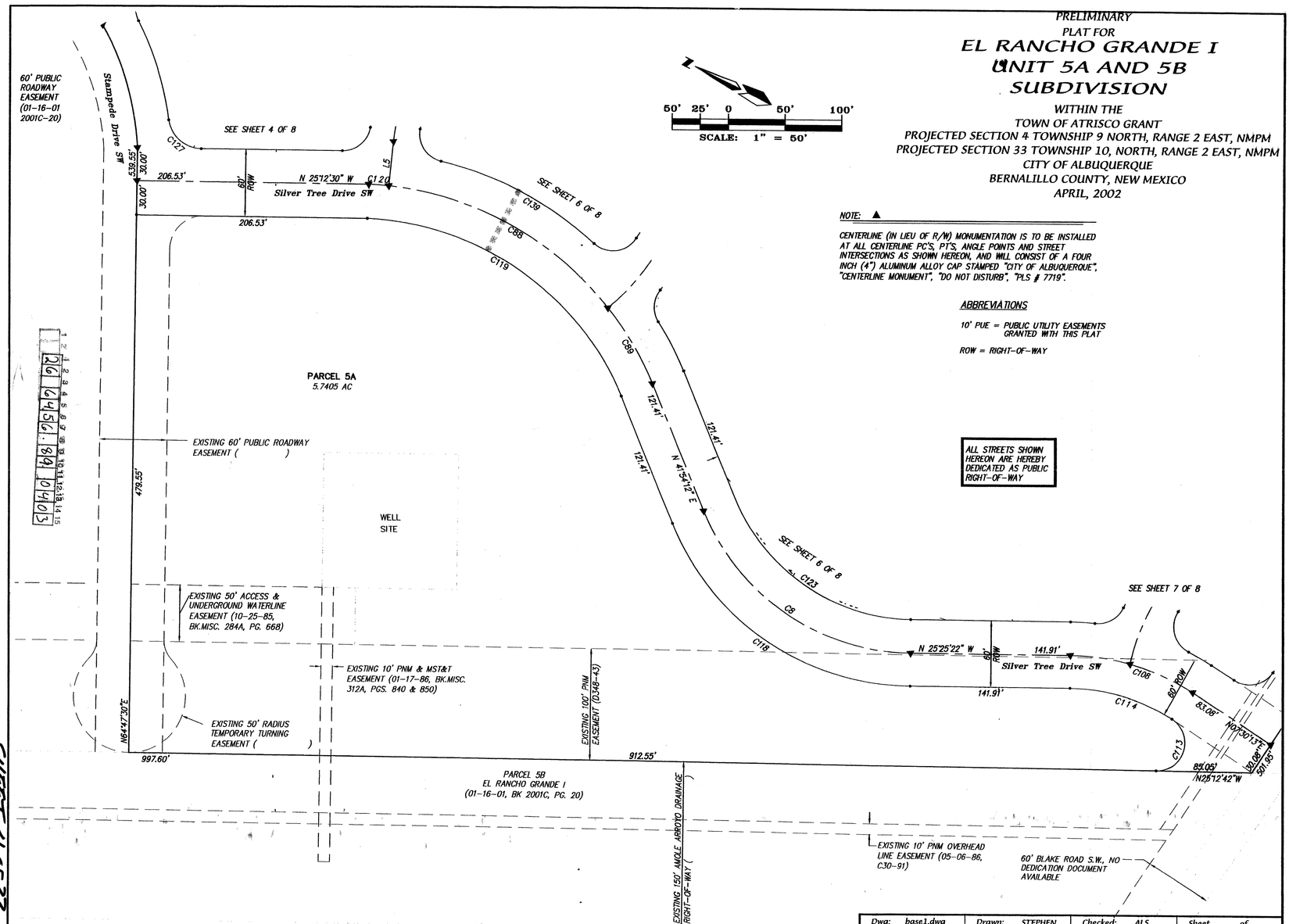


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ABBREVIATIONS

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| Dwg: base1.dwg | Drawn: STEPHEN | Checked: ALS | Sheet 5 of 8 |
|---|---|---|---|
| Scale: 1" = 50' | Date: 05/24/02 | Job: A02030 | |

SHEET 4 OF 22

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SCANNED BY MESA REPRO

PRELIMINARY
PLAT FOR

# EL RANCHO GRANDE I UNIT 5A AND 5B SUBDIVISION

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TOWN OF ATRISCO GRANT
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PROJECTED SECTION 33 TOWNSHIP 10, NORTH, RANGE 2 EAST, NMPM
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
APRIL, 2002

SCANNED BY MESA REPRO

| CURVE TABLE | | | | | | |
|---|---|---|---|---|---|---|
| CURVE | RADIUS | LENGTH | DELTA | TANGENT | CH-BEARING | CHORD |
| C1 | 19954.00 | 530.77 | 1°31'27" | 265.40 | S80°31'50"W | 530.76 |
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| C7 | 250.00 | 201.36 | 46°08'53" | 106.50 | N12°01'15"E | 195.96 |
| C8 | 200.00 | 235.01 | 67°19'30" | 133.19 | S08°14'25"W | 195.96 |
| C9 | 505.00 | 233.48 | 26°29'23" | 133.19 | S06°40'03"W | 195.96 |
| C10 | 30.00 | 44.68 | 85°20'12" | 27.65 | N52°16'00"W | 40.67 |
| C11 | 25.00 | 39.45 | 90°25'06" | 25.18 | N35°36'39"E | 35.48 |
| C12 | 25.00 | 38.45 | 88°07'37" | 24.20 | S55°07'00"E | 34.77 |
| C13 | 35.00 | 55.69 | 91°09'33" | 35.72 | S34°31'35"W | 50.00 |
| C14 | 19954.00 | 22.91 | 0°03'57" | 11.45 | S80°08'20"W | 22.91 |
| C15 | 19954.00 | 44.00 | 0°07'35" | 22.00 | S80°14'05"W | 44.00 |
| C16 | 19954.00 | 44.00 | 0°07'35" | 22.00 | S80°21'40"W | 44.00 |
| C17 | 19954.00 | 44.00 | 0°07'35" | 22.00 | S80°29'15"W | 44.00 |
| C18 | 19954.00 | 44.00 | 0°07'35" | 22.00 | S80°36'50"W | 44.00 |
| C19 | 19954.00 | 44.00 | 0°07'35" | 22.00 | S80°44'25"W | 44.00 |
| C20 | 19954.00 | 50.00 | 0°08'37" | 25.00 | S80°52'31"W | 50.00 |
| C21 | 19954.00 | 50.00 | 0°08'37" | 25.00 | S81°01'07"W | 50.00 |
| C22 | 19954.00 | 50.00 | 0°08'37" | 25.00 | S81°09'44"W | 50.00 |
| C23 | 2500.00 | 29.63 | 0°40'44" | 14.81 | S81°37'56"W | 29.63 |
| C24 | 2500.00 | 50.02 | 1°08'47" | 25.01 | S82°32'42"W | 50.02 |
| C25 | 2500.00 | 50.06 | 1°08'51" | 25.03 | S83°41'30"W | 50.06 |
| C26 | 2500.00 | 34.88 | 0°47'58" | 17.44 | S84°39'55"W | 34.88 |
| C27 | 25.00 | 40.09 | 91°52'23" | 25.83 | S34°53'00"W | 35.93 |
| C28 | 25.00 | 41.30 | 94°39'44" | 27.12 | N51°50'57"W | 36.76 |
| C29 | 25.00 | 35.14 | 80°31'26" | 21.17 | N40°33'29"E | 32.31 |
| C30 | 25.00 | 38.97 | 89°18'21" | 24.70 | S44°49'14"E | 35.14 |
| C31 | 280.00 | 53.20 | 10°53'08" | 26.68 | N05°36'37"W | 53.12 |
| C32 | 178.00 | 30.16 | 9°42'24" | 15.11 | N85°40'24"E | 30.12 |
| C33 | 222.00 | 29.28 | 7°33'25" | 14.66 | N84°35'54"E | 29.26 |
| C34 | 222.00 | 20.50 | 5°17'30" | 10.26 | S88°58'38"E | 20.50 |
| C35 | 25.00 | 33.16 | 75°59'33" | 19.53 | S55°40'20"W | 30.78 |
| C36 | 280.00 | 85.12 | 17°25'08" | 42.89 | N26°23'07"E | 84.80 |
| C37 | 158.00 | 22.42 | 8°07'45" | 11.23 | S79°13'05"E | 22.40 |
| C38 | 25.00 | 48.10 | 110°14'53" | 35.87 | S20°01'46"E | 41.02 |
| C39 | 53.00 | 74.19 | 80°12'24" | 44.64 | N56°36'50"E | 68.28 |
| C40 | 25.00 | 43.40 | 99°28'34" | 29.52 | N49°26'31"W | 38.15 |
| C41 | 278.00 | 32.12 | 6°37'13" | 16.08 | N03°36'22"E | 32.10 |
| C42 | 278.00 | 46.55 | 9°35'40" | 23.33 | N11°42'48"E | 46.50 |
| C43 | 200.00 | 92.13 | 26°23'32" | 46.90 | S85°59'03"E | 91.31 |
| C44 | 180.00 | 98.12 | 31°14'02" | 50.31 | S67°39'57"E | 96.91 |
| C45 | 75.00 | 104.99 | 80°12'24" | 63.16 | N56°36'50"E | 96.63 |
| C46 | 300.00 | 84.90 | 16°12'52" | 42.74 | N08°24'12"E | 84.62 |
| C47 | 280.00 | 34.52 | 7°03'50" | 17.28 | N35°17'44"E | 34.50 |
| C48 | 280.00 | 50.85 | 10°24'18" | 25.49 | N26°33'39"E | 50.78 |
| C49 | 280.00 | 50.07 | 10°14'43" | 25.10 | N16°14'09"E | 50.00 |
| C50 | 280.00 | 52.86 | 10°49'02" | 26.51 | N05°42'17"E | 52.78 |
| C51 | 25.00 | 43.40 | 99°28'34" | 29.52 | N49°26'31"W | 38.15 |
| C52 | 25.00 | 35.14 | 80°31'26" | 21.17 | S40°33'29"W | 32.31 |
| C53 | 322.00 | 14.39 | 2°33'38" | 7.20 | N01°34'35"E | 14.39 |
| C54 | 322.00 | 42.33 | 7°31'54" | 21.19 | N06°37'21"E | 42.30 |
| C55 | 322.00 | 34.41 | 6°07'20" | 17.22 | N13°26'58"E | 34.39 |
| C56 | 25.00 | 12.62 | 28°55'54" | 6.45 | S02°02'42"W | 12.49 |
| C57 | 45.00 | 17.33 | 22°04'15" | 8.78 | N01°23'08"W | 17.23 |
| C58 | 45.00 | 65.48 | 83°22'04" | 40.07 | N51°20'02"E | 59.85 |
| C59 | 45.00 | 2.91 | 3°41'59" | 1.45 | S85°07'57"E | 2.91 |
| C60 | 202.00 | 39.76 | 11°16'39" | 19.94 | S77°38'38"E | 39.70 |
| C61 | 202.00 | 19.27 | 5°27'57" | 9.64 | S69°16'20"E | 19.26 |
| C62 | 25.00 | 33.17 | 76°01'13" | 19.54 | S75°27'02"W | 30.79 |
| C63 | 280.00 | 92.07 | 18°50'26" | 46.46 | N46°51'39"E | 91.66 |
| C64 | 30.00 | 35.61 | 68°01'00" | 20.24 | S22°16'22"W | 33.56 |
| C65 | 25.00 | 32.53 | 74°32'40" | 19.03 | N76°05'59"E | 30.28 |
| C66 | 297.00 | 35.22 | 6°47'39" | 17.63 | N70°01'30"W | 35.20 |
| C67 | 297.00 | 46.78 | 9°01'27" | 23.44 | N77°56'03"W | 46.73 |
| C68 | 297.00 | 4.34 | 0°50'11" | 2.17 | N82°51'52"W | 4.34 |
| C69 | 30.00 | 7.05 | 13°28'22" | 3.54 | S18°28'19"E | 7.04 |
| C70 | 25.00 | 35.70 | 81°48'34" | 21.66 | S66°06'47"E | 32.74 |
| C71 | 202.00 | 27.87 | 7°54'19" | 13.96 | S76°56'05"W | 27.85 |
| C72 | 202.00 | 45.36 | 12°51'59" | 22.78 | S87°19'14"W | 45.27 |
| C73 | 202.00 | 10.45 | 2°57'48" | 5.23 | N84°45'52"W | 10.45 |
| C74 | 253.00 | 44.17 | 10°00'07" | 22.14 | N78°16'54"W | 44.11 |

| CURVE TABLE | | | | | | |
|---|---|---|---|---|---|---|
| CURVE | RADIUS | LENGTH | DELTA | TANGENT | CH-BEARING | CHORD |
| C75 | 25.00 | 48.92 | 112°06'29" | 37.14 | N17°13'36"W | 41.48 |
| C76 | 320.00 | 42.54 | 7°37'00" | 21.30 | S35°01'09"W | 42.51 |
| C77 | 158.00 | 9.29 | 3°22'10" | 4.65 | N84°58'02"W | 9.29 |
| C78 | 158.00 | 50.78 | 18°24'50" | 25.61 | S84°08'28"W | 50.56 |
| C79 | 25.00 | 37.92 | 86°54'20" | 23.68 | S31°28'53"W | 34.39 |
| C80 | 315.00 | 73.80 | 13°25'24" | 37.07 | N05°15'35"W | 73.63 |
| C81 | 315.00 | 81.59 | 14°50'27" | 41.03 | N08°52'21"E | 81.36 |
| C82 | 25.00 | 43.45 | 99°34'32" | 29.57 | S33°29'42"E | 38.18 |
| C83 | 322.00 | 20.10 | 3°34'36" | 10.05 | N81°29'40"W | 20.10 |
| C84 | 24.93 | 37.90 | 87°06'54" | 23.70 | N56°34'20"E | 34.35 |
| C85 | 320.00 | 102.54 | 18°21'37" | 51.72 | S22°01'51"W | 102.11 |
| C86 | 300.00 | [illegible] | [illegible] | 20.84 | N79°18'33"W | 41.58 |
| C87 | 200.00 | [illegible] | [illegible] | 32.09 | S74°10'04"E | 63.37 |
| C88 | 285.00 | [illegible] | [illegible] | 120.61 | N02°56'10"E | 222.14 |
| C89 | 285.00 | [illegible] | [illegible] | 40.13 | N33°53'10"E | 79.48 |
| C90 | 25.00 | [illegible] | [illegible] | 20.31 | N38°47'38"W | 31.53 |
| C91 | 278.00 | 26.[illegible] | [illegible] | 13.11 | N80°35'00"W | 26.18 |
| C92 | 222.00 | 23.64 | [illegible] | 11.83 | S80°13'56"E | 23.63 |
| C93 | 25.00 | 30.58 | [illegible] | 17.53 | S67°46'42"W | 28.71 |
| C94 | 315.00 | 49.24 | [illegible] | [illegible]67 | N37°13'01"E | 49.19 |
| C95 | 25.00 | 2.32 | [illegible] | [illegible]16 | S23°08'34"E | 2.32 |
| C96 | 45.00 | 115.24 | 14[illegible] | [illegible] | S86°08'55"W | 86.23 |
| C97 | 170.00 | 86.40 | 29[illegible] | [illegible] | S27°20'34"W | 85.47 |
| C98 | 25.00 | 36.08 | 82°40'5[illegible] | 21.99 | N55°22'36"E | 33.03 |
| C99 | 45.00 | 92.37 | 117°36'44" | 74.32 | S46°01'23"E | 76.99 |
| C100 | 170.00 | 113.36 | 38°12'19" | 58.88 | S06°19'11"E | 111.27 |
| C101 | 25.00 | 36.47 | 83°34'44" | 22.34 | N41°29'36"W | 33.32 |
| C102 | 230.00 | 21.63 | 5°23'21" | 10.82 | N22°43'42"W | 21.63 |
| C103 | 25.00 | 30.60 | 70°12'25" | 17.55 | S55°05'44"E | 28.72 |
| C104 | 202.00 | 20.69 | 5°52'03" | 10.35 | N87°13'28"W | 20.68 |
| C105 | 202.00 | 6.32 | 1°47'36" | 3.16 | N83°23'35"W | 6.32 |
| C106 | 25.00 | 36.42 | 83°28'02" | 22.30 | N55°46'12"E | 33.28 |
| C107 | 180.00 | 67.29 | 21°25'14" | 34.04 | S86°47'36"W | 66.90 |
| C108 | 25.00 | 36.13 | 82°47'33" | 22.04 | N41°06'01"W | 33.06 |
| C109 | 25.00 | 42.41 | 97°12'27" | 28.36 | N48°53'59"E | 37.51 |
| C110 | 25.00 | 41.82 | 95°50'02" | 27.68 | S49°35'12"W | 37.11 |
| C111 | 230.00 | 23.42 | 5°50'03" | 11.72 | N04°35'12"E | 23.41 |
| C112 | 25.00 | 39.27 | 90°00'00" | 25.00 | S37°29'47"E | 35.36 |
| C113 | 25.00 | 64.61 | 148°04'20" | 87.39 | N80°45'09"E | 48.07 |
| C114 | 170.00 | 95.36 | 32°08'21" | 48.97 | N09°21'11"W | 94.11 |
| C116 | 275.00 | 113.16 | 23°34'34" | 57.39 | N71°29'41"W | 112.36 |
| C117 | 180.00 | 84.01 | 26°44'31" | 42.79 | S83°20'47"W | 83.25 |
| C118 | 230.00 | 270.26 | 67°19'34" | 153.17 | S08°14'25"W | 254.98 |
| C119 | 255.00 | 291.44 | 65°28'59" | 163.97 | N09°09'43"E | 275.83 |
| C120 | 285.00 | 17.80 | 3°34'45" | 8.90 | N21°47'26"W | 17.80 |
| C121 | 45.00 | 212.42 | 270°27'27" | 44.64 | S24°17'08"W | 63.38 |
| C122 | 202.00 | 27.01 | 7°39'39" | 13.52 | N86°19'37"W | 26.99 |
| C123 | 170.00 | 199.76 | 67°19'30" | 113.22 | S08°14'25"W | 188.46 |
| C124 | 158.00 | 60.07 | 21°46'59" | 30.40 | S85°49'33"W | 59.71 |
| C125 | 202.00 | 83.68 | 23°44'07" | 42.45 | S84°50'59"W | 83.08 |
| C126 | 297.00 | 86.33 | 16°39'17" | 43.47 | N74°57'19"W | 86.03 |
| C127 | 30.00 | 42.67 | 81°29'22" | 25.84 | S15°32'11"W | 39.16 |
| C128 | 202.00 | 59.03 | 16°44'37" | 29.73 | S74°54'39"E | 58.82 |
| C129 | 45.00 | 85.72 | 109°08'18" | 63.25 | N4°08'53"E | 73.33 |
| C130 | 278.00 | 78.67 | 16°12'52" | 39.60 | N08°24'12"E | 78.41 |
| C131 | 322.00 | 91.13 | 16°12'52" | 45.87 | N08°24'12"E | 90.82 |
| C132 | 280.00 | 188.30 | 38°31'53" | 97.87 | N19°33'42"E | 184.77 |
| C133 | 222.00 | 49.78 | 12°50'55" | 25.00 | N87°14'39"E | 49.68 |
| C134 | 25.00 | 25.08 | 57°28'59" | 13.71 | S54°32'28"E | 24.04 |
| C135 | 25.00 | 12.07 | 27°39'38" | 6.15 | S82°53'14"W | 11.95 |
| C136 | 45.00 | 4.80 | 6°06'50" | 2.40 | N72°06'50"E | 4.80 |
| C137 | 320.00 | 144.95 | 25°57'12" | 73.74 | S25°51'03"W | 143.71 |
| C138 | 300.00 | 18.13 | 3°27'46" | 9.07 | S02°01'39"W | 18.13 |
| C139 | 315.00 | 155.39 | 28°15'51" | 79.31 | N02°09'39"E | 153.82 |
| C140 | 35.00 | 23.27 | 38°05'08" | 12.08 | N60°07'08"W | 22.84 |
| C141 | 300.00 | 16.65 | 3°10'47" | 8.33 | S82°24'35"W | 16.65 |

| LINE TABLE | | |
|---|---|---|
| LINE | BEARING | DISTANCE |
| L2 | S89°49'19"E | 53.92' |
| L3 | N06°21'05"W | 13.74' |
| L4 | N77°13'01"W | 10.15' |
| L5 | S69°59'57"W | 40.15' |
| L6 | S75°20'08"E | 23.66' |
| L7 | S06°43'02"W | 15.00' |
| L8 | N54°54'19"W | 36.59' |
| L9 | S44°14'33"W | 19.15' |
| L10 | N18°28'57"E | 38.16' |

N

50' 25' 0 50' 100'

SCALE: 1" = 50'

| Dwg: base1.dwg | Drawn: STEPHEN | Checked: ALS | Sheet 8 of 8 |
|---|---|---|---|
| Scale: 1" = 50' | Date: 05/24/02 | Job: A02030 | |

PRELIMINARY
PLAT FOR

# EL RANCHO GRANDE I UNIT 5A AND 5B SUBDIVISION

WITHIN THE
TOWN OF ATRISCO GRANT
PROJECTED SECTION 4 TOWNSHIP 9 NORTH, RANGE 2 EAST, NMPM
PROJECTED SECTION 33 TOWNSHIP 10, NORTH, RANGE 2 EAST, NMPM
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
APRIL, 2002

ABBREVIATIONS

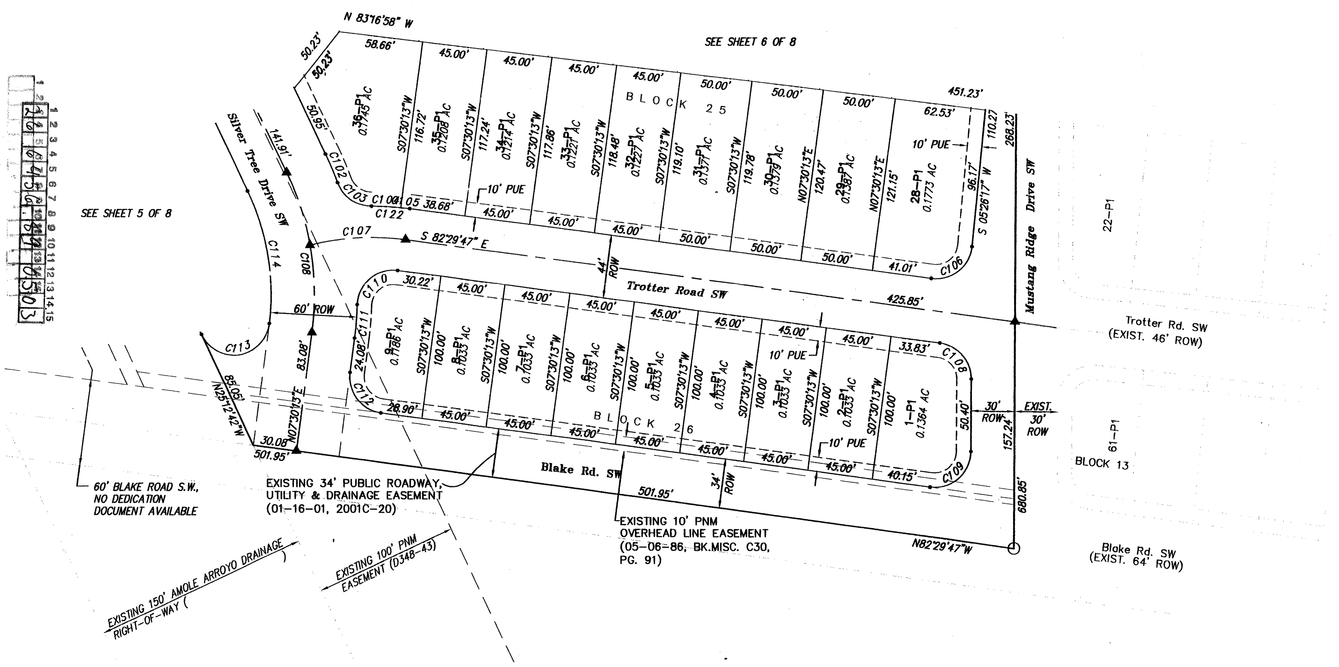
10' PUE = PUBLIC UTILITY EASEMENTS GRANTED WITH THIS PLAT

ROW = RIGHT-OF-WAY

ALL STREETS SHOWN HEREON ARE HEREBY DEDICATED AS PUBLIC RIGHT-OF-WAY

NOTE: ▲

CENTERLINE (IN LIEU OF R/W) MONUMENTATION IS TO BE INSTALLED AT ALL CENTERLINE PC'S, PT'S, ANGLE POINTS AND STREET INTERSECTIONS AS SHOWN HEREON, AND WILL CONSIST OF A FOUR INCH (4") ALUMINUM ALLOY CAP STAMPED "CITY OF ALBUQUERQUE", "CENTERLINE MONUMENT", "DO NOT DISTURB", "PLS # 7719".



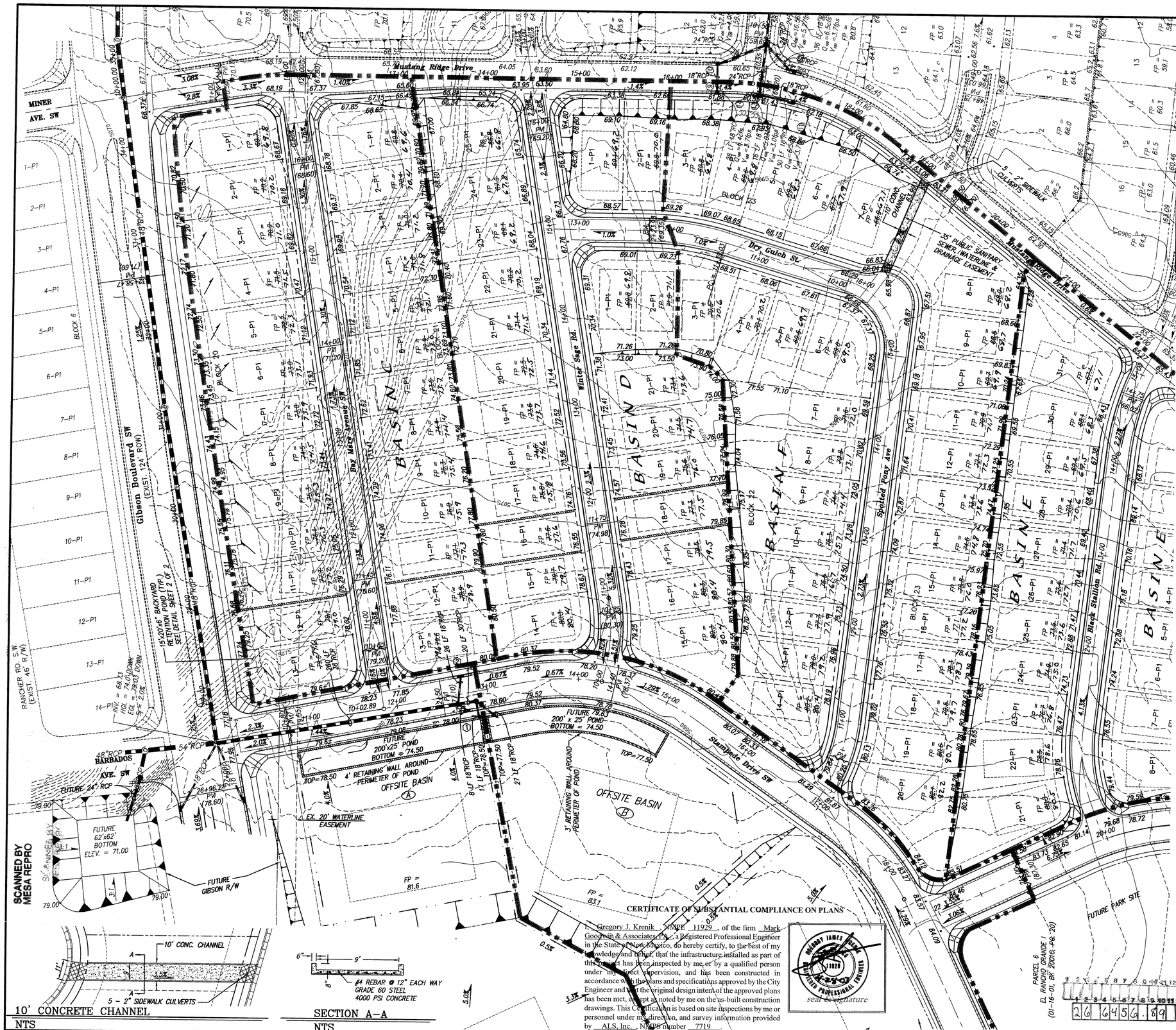

N

50' 25' 0 50' 100'

SCALE: 1" = 50'

| Dwg: base1.dwg | Drawn: STEPHEN | Checked: ALS | Sheet 7 of 8 |
|---|---|---|---|
| Scale: 1" = 50' | Date: 05/24/02 | Job: A02030 | |

SHEET 5 OF 22




ZONE MAP: M-9 & N-9

NTS

## LEGEND

| | |
|---|---|
| 5115 | EXISTING CONTOUR (MAJOR) |
| 5116 | EXISTING CONTOUR (MINOR) |
| x 00.00 | EXISTING SPOT ELEVATION |
| ~~14.50~~ 14.3 | ~~NEW~~ ASBUILT SPOT ELEVATION |
| | NEW MOUNTABLE CURB AND GUTTER |
| | NEW STANDARD CURB AND GUTTER |
| | NEW DEPRESSED MOUNTABLE CURB & GUTTER |
| | EXISTING CONCRETE CURB AND GUTTER |
| | EXISTING CONCRETE/SIDEWALK |
| | EXISTING WALL OR HEAD WALL |
| FP = | FINISHED PAD ELEVATION |
| | DRAINAGE BASIN BOUNDARY |
| | PROPERTY LINE |
| | PROPOSED SWALE |
| | EXISTING SANITARY SEWER MANHOLE |
| 48"RCP | EXISTING STORM SEWER |
| 48"RCP | PROPOSED STORM SEWER |
| | NEW RETAINING WALL |
| | EXISTING WATER VALVE |
| | EXISTING FIRE HYDRANT |
| | EXISTING TELEPHONE PEDESTAL |
| | EXISTING CABLE T.V. PEDESTAL |
| | EXISTING UNDERGROUND GAS MARKER |
| | PROPOSED WATERBLOCK |

50' 25' 0 50' 100'

SCALE: 1" = 50'

APPROVED ROUGH GRADING ±18" _____

CITY HYDROLOGY

## CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Gregory J. Krenik, NMPE 11929, of the firm Mark Goodwin & Associates, P.A., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me, or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and with the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by ALS, Inc., NMPS number 7719.

GREGORY JAMES KRENIK NEW MEXICO 11929 REGISTERED PROFESSIONAL ENGINEER

seal & signature

A02030/A02030-GD50 09-05-02 NHE




10' CONCRETE CHANNEL

NTS




SECTION A-A

NTS

| AS BUILT INFORMATION | | |
|---|---|---|
| CONTRACTOR | NEW CONCEPTS | DATE 03 |
| STAKED BY | ALS | DATE 7/03 |
| INSPECTOR'S ACCEPTANCE BY | ALS | DATE 7/03 |
| FIELD VERIFICATION BY | ALS | DATE 7/03 |
| DRAWINGS CORRECTED BY | ALS | DATE 7/03 |
| MICRO-FILM INFORMATION | | |
| RECORDED BY: | | DATE |
| NO. | | |

BENCH MARKS

STATION "TRANS" IS LOCATED 6 MI. SOUTHWEST OF DOWNTOWN ALBUQUERQUE, IN THE R.O.W. OF A PLAINS ELECTRIC CO-OP TRANSMISSION LINE. TO REACH STATION FROM INTERSECTION OF CENTRAL AVE. & 98TH ST. SW, GO SOUTH ON 98TH ST. 1.2 MI. TO JUNCTION WITH GIBSON BLVD. & SNOW VISTA BLVD., THEN SOUTHEAST ALONG SNOW VISTA AND CO-OP ELECTRIC TRANSMISSION LINE 0.85 MI. TO PYLON NUMBERED "522". STATION IS JUST EAST OF THIS POINT.

X = 354,899.45, Y = 1,471,822.67, G-G = 0.99996721(NAD 1927)

"-16" LOCATED ON SW COR. OF 98th & SAGE. NGVD 29 EL. = 5147.87

SURVEY INFORMATION

FIELD NOTES

| NO. | BY | DATE |
|---|---|---|
| | | |

ENGINEER'S SEAL

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | REVISIONS | |

| | | DATE |
|---|---|---|
| DESIGNED BY | GJK | 04/02 |
| DRAWN BY | NHE | 04/02 |
| CHECKED BY | DMG | 04/02 |


MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

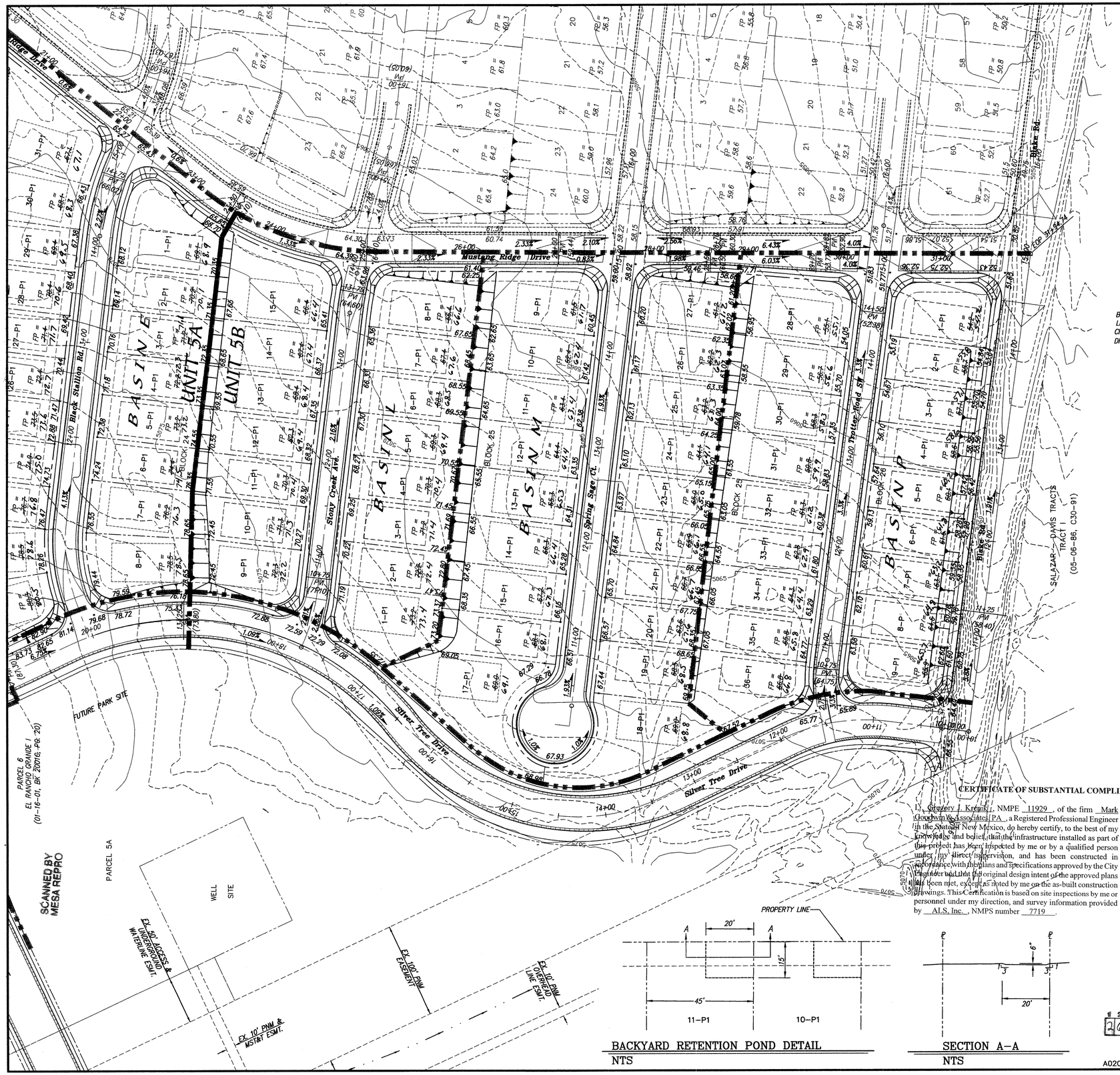

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: EL RANCHO GRANDE I - UNIT 5
GRADING & DRAINAGE PLAN

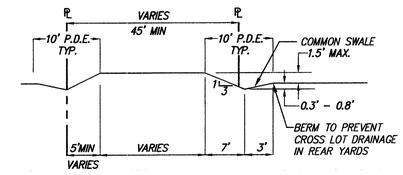
| DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR. |
|---|---|---|---|---|
| | | | | |

| CITY PROJECT NO. | ZONE MAP NO. | SHEET | OF |
|---|---|---|---|
| 6456889 | M9 & N9 | 1 | 2 |

SHEET 6 OF 22

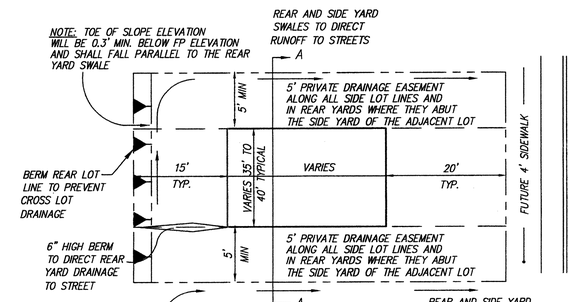



## NOTES



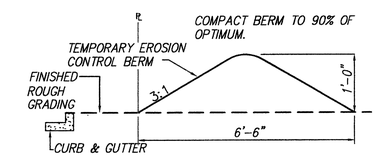

SECTION A-A

NTS




TYPICAL LOT GRADING DETAIL

NTS




EROSION CONTROL BERM DETAIL

N.T.S.

### EROSION CONTROL NOTES

1. CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
2. CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION LATEST EDITION, SHALL GOVERN ALL WORK.
3. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS, AND SHALL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.
4. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AS PER DETAIL, THIS SHEET AND BY WETTING THE SOIL TO KEEP IT FROM BLOWING. CONTRACTOR IS RESPONSIBLE FOR CLEANING UP ANY SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
5. THE EARTHWORK CONTRACTOR SHALL STOCKPILE ENOUGH MATERIAL ADJACENT TO RETAINING WALL LOCATIONS TO BE UTILIZED FOR WALL BACKFILL.
6. ALL STREET ELEVATIONS SHOWN ARE FINISHED FLOW LINE ELEVATIONS.

### CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Gregory J. Krenik, NMPE 11929, of the firm Mark Goodwin & Associates, PA, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by ALS, Inc., NMPS number 7719.

GREGORY JAMES KRENIK 11929 REGISTERED PROFESSIONAL ENGINEER

seal & signature

50' 25' 0 50' 100'

SCALE: 1" = 50'




BACKYARD RETENTION POND DETAIL

NTS




SECTION A-A

NTS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
2 6 6 4 5 6 . 8 9 0 7 0 3

A02030/A02030-GD50 08-27-02 NHE

AS BUILT INFORMATION

| | | |
|---|---|---|
| CONTRACTOR | NEW CONCEPTS | |
| WORK STAKED BY | ALS | DATE 03 |
| INSPECTOR'S ACCEPTANCE BY | AlGalAlpha | DATE 7/03 |
| VERIFICATION BY | ALS | DATE 7/03 |
| CORRECTIONS CORRECTED BY | ALS | DATE 7/03 |
| MICRO-FILM INFORMATION | | |
| RECORDED BY | | DATE |
| NO. | | |

BENCH MARKS

STATION "TRANS" IS LOCATED 6 MI. SOUTHWEST OF DOWNTOWN ALBUQUERQUE, IN THE R.O.W. OF A PLAINS ELECTRIC CO-OP TRANSMISSION LINE. TO REACH STATION FROM INTERSECTION OF CENTRAL AVE. & 98TH ST. SW, GO SOUTH ON 98TH ST. 1.2 MI. TO JUNCTION WITH GIBSON BLVD. & SNOW VISTA BLVD., THEN SOUTHEAST ALONG SNOW VISTA AND CO-OP ELECTRIC TRANSMISSION LINE 0.85 MI. TO PYLON NUMBERED "52". STATION IS JUST EAST OF THIS POINT.
X = 354,899.45, Y = 1,471,822.67, C-G = 0.9996792(NAD 1927)
"1-H9" LOCATED ON SW COR. OF 98th & SAGE. NGVD 29 EL. = 5147.87

SURVEY INFORMATION

FIELD NOTES

| NO. | BY | DATE |
|---|---|---|
| | | |

ENGINEER'S SEAL

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | | |

REVISIONS

| | | |
|---|---|---|
| DESIGN | | |
| DESIGNED BY | GJK | DATE 04/02 |
| DRAWN BY | NHE | DATE 04/02 |
| CHECKED BY | DMG | DATE 04/02 |


dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539


CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

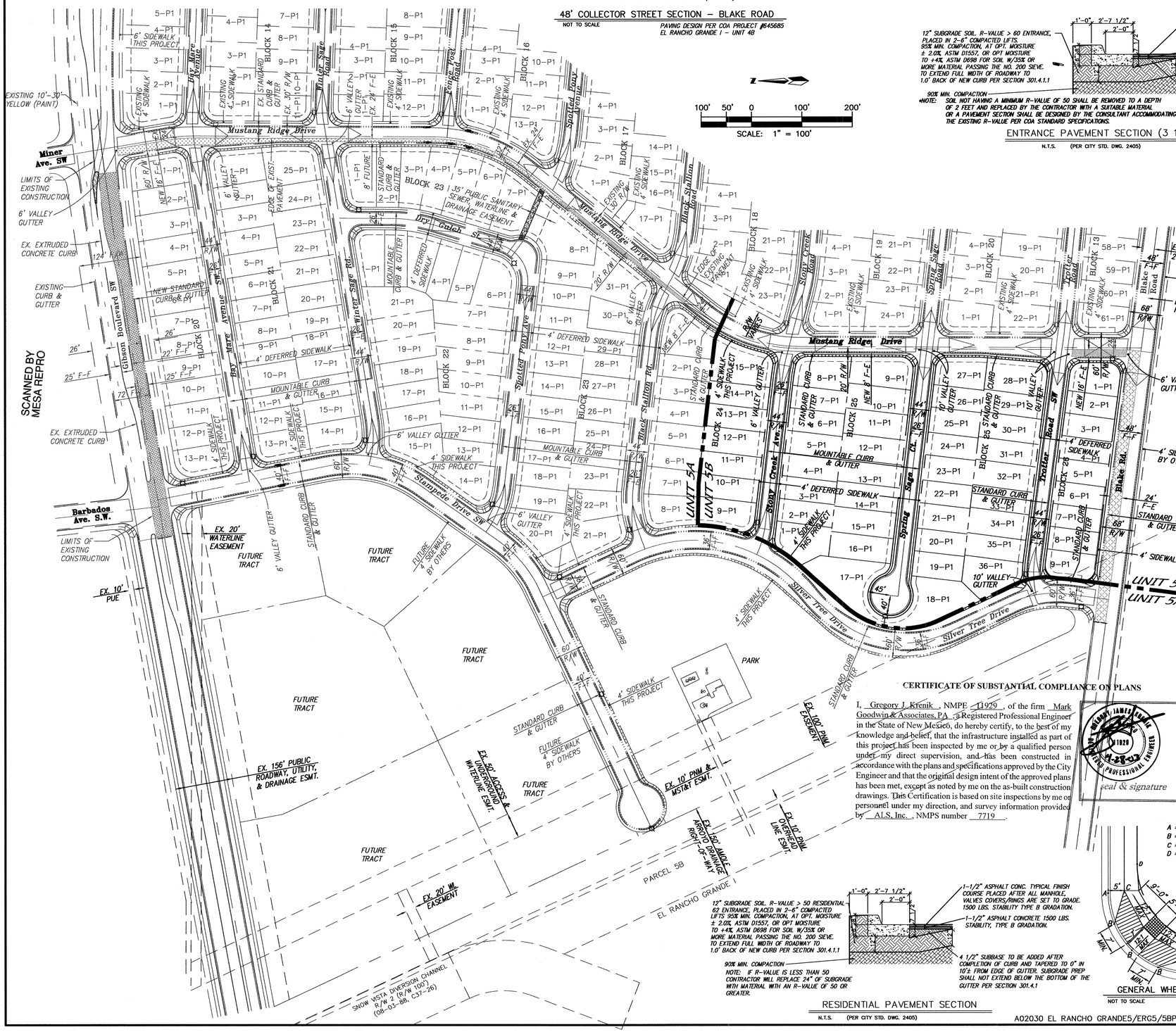
TITLE: EL RANCHO GRANDE I - UNIT 5
GRADING & DRAINAGE PLAN

| DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR. |
|---|---|---|---|---|
| X | X | | | |

| CITY PROJECT NO. | ZONE MAP NO. | SHEET | OF |
|---|---|---|---|
| 6456889 | M9 & N9 | 2 | 2 |

SHEET 7 OF 22

F:\A02030\A2030 EL RANCHO GRANDE 5\A02030-GD50.dwg, SHEET2, 09/05/02 02:14:13 PM, Mark Goodwin & Associates Plotted by NHE




SCANNED BY MESA REPRO

68' R/W

10' | 6' | 18' E-E | FUTURE 18' E-E | 6' | 10'

4' SIDEWALK 2% | 6' BIKE-LANE | 8" STANDARD CURB & GUTTER PER CITY STD. DWG. 2415 | BIKE-LANE 6' | 4' SIDEWALK 2%

2% ℄ 2%

3" ASPHALT SURFACE COURSE (TYPE B) 1800M
3" ASPHALTIC BASE COURSE (TYPE A) 1800M

## 48' COLLECTOR STREET SECTION – BLAKE ROAD

NOT TO SCALE

PAVING DESIGN PER COA PROJECT #645685
EL RANCHO GRANDE I – UNIT 4B

SCALE: 1" = 100'

12" SUBGRADE SOIL. R-VALUE > 60 ENTRANCE, PLACED IN 2-6" COMPACTED LIFTS. 95% MIN. COMPACTION, AT OPT. MOISTURE ± 2.0%, ASTM D1557, OR OPT MOISTURE TO +4%, ASTM D698 FOR SOIL W/35% OR MORE MATERIAL PASSING THE NO. 200 SIEVE. TO EXTEND FULL WIDTH OF ROADWAY TO 1.0' BACK OF NEW CURB PER SECTION 301.4.1.1

90% MIN. COMPACTION

*NOTE: SOIL NOT HAVING A MINIMUM R-VALUE OF 50 SHALL BE REMOVED TO A DEPTH OF 2 FEET AND REPLACED BY THE CONTRACTOR WITH A SUITABLE MATERIAL OR A PAVEMENT SECTION SHALL BE DESIGNED BY THE CONSULTANT ACCOMMODATING THE EXISTING R-VALUE PER COA STANDARD SPECIFICATIONS.

1'-0" | 2'-7 1/2" | 2'-0"

1 1/2" OR 2" ASPHALT CONC. TYPICAL FINISH COURSE PLACED AFTER ALL MANHOLE, VALVES COVERS/RINGS ARE SET TO GRADE. 1500 LBS. STABILITY TYPE B GRADATION.

2" ASPHALT CONCRETE 1500 LBS. STABILITY, TYPE B GRADATION.

3 1/2" OR 4" SUBBASE TO BE ADDED AFTER COMPLETION OF CURB AND TAPERED TO 0" IN 10± FROM EDGE OF GUTTER. SUBGRADE PREP SHALL NOT EXTEND BELOW THE BOTTOM OF THE GUTTER PER SECTION 301.4.1

## ENTRANCE PAVEMENT SECTION (3 1/2" AND 4")

N.T.S. (PER CITY STD. DWG. 2405)

## NOTES

1. ALL 4' VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2421 AT KNUCKLES AND 6' VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2420 AT ALL INTERSECTIONS, EXCEPT 10' VALLEY GUTTERS ARE PER CITY OF ALBUQUERQUE STANDARD DRAWING 2422.
2. ALL 4' INTERIOR SIDEWALKS ARE DEFERRED.
3. TRANSITION FROM ROLL CURB TO STANDARD CURB SHALL BE PER CITY OF ALBUQUERQUE DRAWING 2418, UNLESS OTHERWISE SPECIFIED.
4. ALL HANDICAP RAMPS TO BE CASE II PER CITY OF ALBUQUERQUE STANDARD DRAWING 2441. WHERE GRADES DO NOT PERMIT A MAXIMUM SLOPE OF 12:1 TO BE MAINTAINED WITHIN THE 7' LENGTH AS SPECIFIED. THEN THE "F" LENGTH AS SHOWN IN DRAWING 2441 SHALL MUST BE INCREASED TO MAINTAIN A SLOPE < 12:1.
5. TRANSITION SECTIONS FROM FULL CROWN TO NO CROWN TO BE A MINIMUM OF 50' AND TRANSITIONS SECTIONS FROM FULL CROWN TO HALF CROWN TO BE A MINIMUM OF 25' PER CITY OF ALBUQUERQUE STANDARD DRAWING 2401.
6. PAVEMENT SECTIONS ARE PER EL RANCHO GRANDE I, UNITS 4A AND 4B.

60' R/W

EXISTING 24' F-E BUILT W/ COA PROJECT #645685 | 10' | 16' | 10'

4' SIDEWALK 2% | 6' | 8" STANDARD CURB & GUTTER PER CITY STD. DWG. 2415 | 6' | 4' SIDEWALK 2%

2% ℄ 2%

SEE ENTRANCE PAVEMENT SECTION THIS SHEET

## 40' ENTRANCE STREET SECTION – MUSTANG RIDGE DRIVE

NOT TO SCALE

EXISTING 30' R/W | 20' R/W THIS PROJECT

EXISTING 24' F-E BUILT W/ COA PROJECT #645685 | 10' | F-E VARIES 8'-16'* | 8'

20'

4' SIDEWALK 2% | 6' | 8" STANDARD CURB & GUTTER PER CITY STD. DWG. 2415 | 4' SIDEWALK 2%

2% ℄ 2%

SEE ENTRANCE PAVEMENT SECTION THIS SHEET

## 32' RESIDENTIAL STREET SECTION – MUSTANG RIDGE DRIVE

NOT TO SCALE

* STA. 23+56.10 THRU 28+75.61 F-E IS 8'.
STA. 28+75.61 THRU 31+94.74 F-E VARIES 12' – 16'.

46' OR 44' R/W

9' | 28' OR 26' F-F | 9'

4' SIDEWALK 2% | 5' | MOUNTABLE CURB OR 8" STANDARD CURB & GUTTER PER CITY STD. DWG. 2415 | 5' | 4' SIDEWALK 2%

2% ℄ 2%

SEE PAVEMENT SECTION THIS SHEET

## 28' OR 26' RESIDENTIAL STREET SECTION

NOT TO SCALE

## LEGEND

- NEW MOUNTABLE CURB AND GUTTER
- FUTURE MOUNTABLE CURB AND GUTTER
- NEW STANDARD CURB AND GUTTER
- NEW DEPRESSED STANDARD CURB AND GUTTER
- FUTURE STANDARD CURB AND GUTTER
- EXISTING CONCRETE CURB AND GUTTER
- EXISTING CONCRETE/SIDEWALK
- EXISTING WALL
- SIDEWALK THIS PROJECT AS PER COA STD DWG 2430
- DEFERRED SIDEWALK
- STORM DRAIN INLET THIS PROJECT
- EXISTING STORM DRAIN INLET
- PROPOSED STREET LIGHT
- PROPOSED WHEEL CHAIR RAMP
- LOT LINE
- RIGHT-OF-WAY LINE
- CENTERLINE
- ARTERIAL PAVEMENT (7" AC) GIBSON THIS PROJECT
- ARTERIAL PAVEMENT (6" AC) BLAKE THIS PROJECT
- ENTRANCE PAVEMENT (3 1/2" AC) THIS PROJECT
- ENTRANCE PAVEMENT (4" AC) THIS PROJECT
- TEMPORARY 4" PAVEMENT THIS PROJECT PER COA STD DWG 2415
- CROWN TRANSITION SEE NOTE 5

## CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Gregory J. Krenik, NMPE 11929, of the firm Mark Goodwin & Associates, PA, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by ALS, Inc., NMPS number 7719.

GREGORY JAMES KRENIK 11929 REGISTERED PROFESSIONAL ENGINEER 11-28-02

seal & signature

A = CURB RETURN POINT
B = QUARTER POINTS
C = 5' BEHIND FACE OF CURB RETURN
D = RIGHT OF WAY RETURN POINT

GRADE IN THESE AREAS IS NOT CRITICAL.

THIS AREA IS 5' x 5' w/ 50:1 MAX. SLOPE

HEADER CURB

5' | 9'-0" | 5'-0" | 9'-0" | 5'-0" | 9'-0" | 4' | 4.5' | 7' MIN. | 50:1 MAX. | 7' MIN.

## GENERAL WHEEL CHAIR RAMP DETAIL

NOT TO SCALE

12" SUBGRADE SOIL. R-VALUE > 50 RESIDENTIAL 62 ENTRANCE, PLACED IN 2-6" COMPACTED LIFTS 95% MIN. COMPACTION, AT OPT. MOISTURE ± 2.0%, ASTM D1557, OR OPT MOISTURE TO +4%, ASTM D698 FOR SOIL W/35% OR MORE MATERIAL PASSING THE NO. 200 SIEVE. TO EXTEND FULL WIDTH OF ROADWAY TO 1.0' BACK OF NEW CURB PER SECTION 301.4.1.1

90% MIN. COMPACTION

NOTE: IF R-VALUE IS LESS THAN 50 CONTRACTOR WILL REPLACE 24" OF SUBGRADE WITH MATERIAL WITH AN R-VALUE OF 50 OR GREATER.

1'-0" | 2'-7 1/2" | 2'-0"

1-1/2" ASPHALT CONC. TYPICAL FINISH COURSE PLACED AFTER ALL MANHOLE, VALVES COVERS/RINGS ARE SET TO GRADE. 1500 LBS. STABILITY TYPE B GRADATION.

1-1/2" ASPHALT CONCRETE 1500 LBS. STABILITY, TYPE B GRADATION.

4 1/2" SUBBASE TO BE ADDED AFTER COMPLETION OF CURB AND TAPERED TO 0" IN 10'± FROM EDGE OF GUTTER. SUBGRADE PREP SHALL NOT EXTEND BELOW THE BOTTOM OF THE GUTTER PER SECTION 301.4.1

## RESIDENTIAL PAVEMENT SECTION

N.T.S. (PER CITY STD. DWG. 2405)

A02030 EL RANCHO GRANDE5/ERG5/5BPLANS/20305BMPAV 11-04-02 NHE

AS BUILT INFORMATION

| | | | |
|---|---|---|---|
| CONTRACTOR | NEW CONCEPTS | DATE | 03 |
| WORK INSPECTOR'S ACCEPTANCE BY | ALCA/Astrupe | DATE | 1/07 |
| VERIFICATION BY | A.I.S. | DATE | 1/03 |
| DRAWINGS CORRECTED BY | A.I.S. | DATE | 4/03 |

MICRO-FILM INFORMATION

| | | | |
|---|---|---|---|
| RECORDED BY | | DATE | |
| NO. | | | |

BENCH MARKS

STATION "TRANS" IS LOCATED 6 MI. SOUTHWEST OF DOWNTOWN ALBUQUERQUE, IN THE R.O.W. OF A PLAINS ELECTRIC CO-OP TRANSMISSION LINE. TO REACH STATION FROM INTERSECTION OF CENTRAL AVE. & 98TH ST. SW, GO SOUTH ON 98TH ST. 1.2 MI. TO JUNCTION WITH GIBSON BLVD. & SNOW VISTA BLVD., THEN SOUTHEAST ALONG SNOW VISTA AND CO-OP ELECTRIC TRANSMISSION LINE 0.85 MI. TO PYLON NUMBERED "52". STATION IS JUST EAST OF THIS POINT.
X = 354,899.45 Y = 1,471,822.67, G-G = 0.99967921(NAD 1927)
"1-H9" LOCATED ON SW COR. OF 98th & SAGE, NGVD 29 El. = 5147.87

SURVEY INFORMATION

FIELD NOTES

| NO. | BY | DATE |
|---|---|---|
| | | |

ENGINEER'S SEAL

GREGORY JAMES KRENIK 11929 PROFESSIONAL ENGINEER 11-28-02

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | | |

REVISIONS

| | | | |
|---|---|---|---|
| DESIGNED BY | JDH | DATE | 01/01 |
| DRAWN BY | NHW | DATE | 01/01 |
| CHECKED BY | DMG | DATE | 01/01 |

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

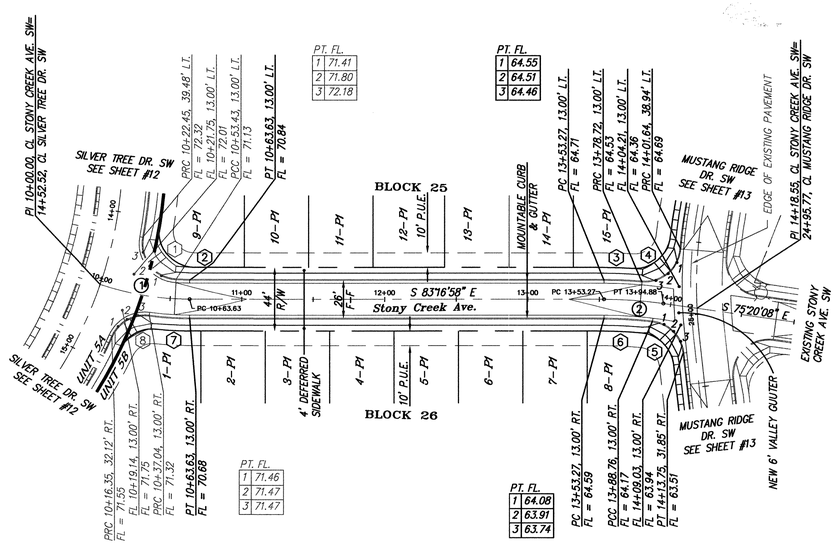
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: EL RANCHO GRANDE I, UNIT 5B
MASTER PAVING PLAN

| DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR. |
|---|---|---|---|---|
| APPROVED NOV 27 2002 DESIGN REVIEW COMMITTEE | APPROVED DEC 24 2002 CITY ENGINEER | | | |

| CITY PROJECT NO. | ZONE MAP NO. | SHEET | OF |
|---|---|---|---|
| 645689 | M-9 & N-9 | 8 | 22 |

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 6456.89 0803




## CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Gregory J. Krenik, NMPE 11929, of the firm Mark Goodwin & Associates, PA, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by ALS, Inc., NMPS number 7719.

NEW MEXICO GREGORY JAMES KRENIK 11929 REGISTERED PROFESSIONAL ENGINEER 11-21-02

seal & signature

N

50' 25' 0 50' 100'

SCALE: 1" = 50'

STONY CREEK AVE. SW
STA. 10+00.00 TO STA. 14+18.55
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

## NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

### CURVE DATA – DESCRIBES CENTERLINE

① Δ = 18°13'48" R = 200.00' T = 32.09' L = 63.63'

② Δ = 7°56'50" R = 300.00' T = 20.84' L = 41.61'

### CURVE DATA – DESCRIBES FACE OF NEW CURB

① Δ = 97°48'46" R = 25.00' T = 28.66' L = 42.68'

② Δ = 2°55'20" R = 187.00' T = 4.77' L = 9.54'

③ Δ = 4°51'35" R = 313.00' T = 13.28' L = 26.55'

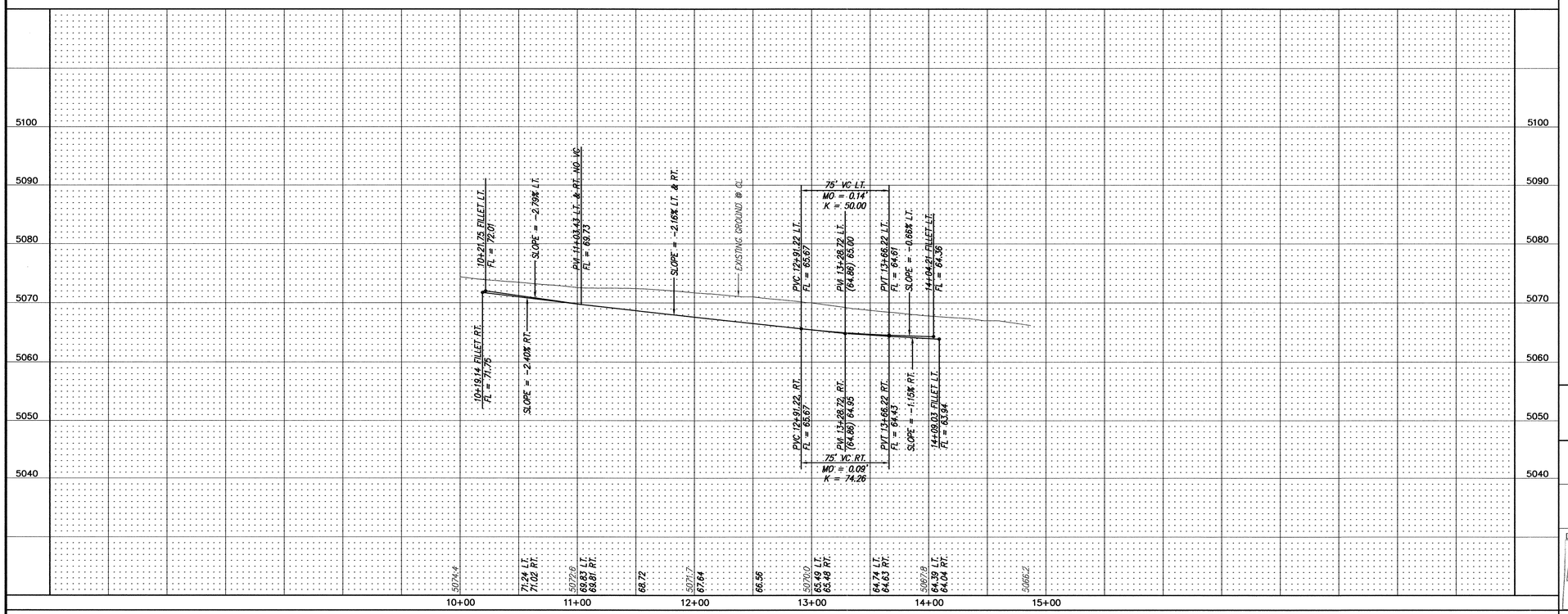
④ Δ = 90°11'13" R = 25.00' T = 25.08' L = 39.35'

⑤ Δ = 76°48'04" R = 25.00' T = 19.82' L = 33.51'

⑥ Δ = 6°46'39" R = 287.00' T = 16.99' L = 33.95'

⑦ Δ = 7°37'12" R = 213.00' T = 14.18' L = 28.33'

⑧ Δ = 73°26'51" R = 25.00' T = 18.65' L = 32.05'




A2030 EL RANCHO GRANDE 5/ERG5/5BPLANS/2030-5B-PP5 09-20-02 NHE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
2 6 6 4 5 6 . 8 9 0 9 0 3


dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539


CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: EL RANCHO GRANDE I - UNIT 5B
STONY CREEK AVE. SW
PAVING IMPROVEMENTS

| DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR. |
|---|---|---|---|---|
| APPROVED NOV 27 2002 DESIGN REVIEW COMMITTEE | APPROVED DEC 24 2002 CITY ENGINEER | | | |

| CITY PROJECT NO. | ZONE MAP NO. | SHEET | OF |
|---|---|---|---|
| 645689 | M-9 & N-9 | 9 | 22 |

AS BUILT INFORMATION

CONTRACTOR NEW CONCEPTS DATE 03
WORK STAKED BY ALS DATE 03
INSPECTOR'S ACCEPTANCE BY MGA DATE 03
FIELD VERIFICATION BY ALS DATE 03
DRAWINGS CORRECTED BY ALS DATE 03
MICRO-FILM INFORMATION
RECORDED BY DATE
NO. DATE

BENCH MARKS

STATION "TRANS" IS LOCATED 6 MI. SOUTHWEST OF DOWNTOWN ALBUQUERQUE, IN THE R.O.W. OF A PLAINS ELECTRIC CO-OP TRANSMISSION LINE. TO REACH STATION FROM INTERSECTION OF CENTRAL AVE. & 98TH ST. SW, GO SOUTH ON 98TH ST. 1.2 MI. TO JUNCTION WITH GIBSON BLVD. & SNOW VISTA BLVD., THEN SOUTHEAST ALONG SNOW VISTA AND CO-OP ELECTRIC TRANSMISSION LINE 0.85 MI. TO PYLON NUMBERED "52". STATION IS JUST EAST OF THIS POINT.
X = 354,899.45, Y = 1,471,822.67, G-G = 0.99967921(NAD 1927)
7-1/8" LOCATED ON SW CORR. OF 98th & SAGE, NGVD 29 EL. = 5147.87 Cif Instar. A. Astorck

SURVEY INFORMATION

FIELD NOTES

| NO. | BY | DATE |
|---|---|---|
| | | |

ENGINEER'S SEAL

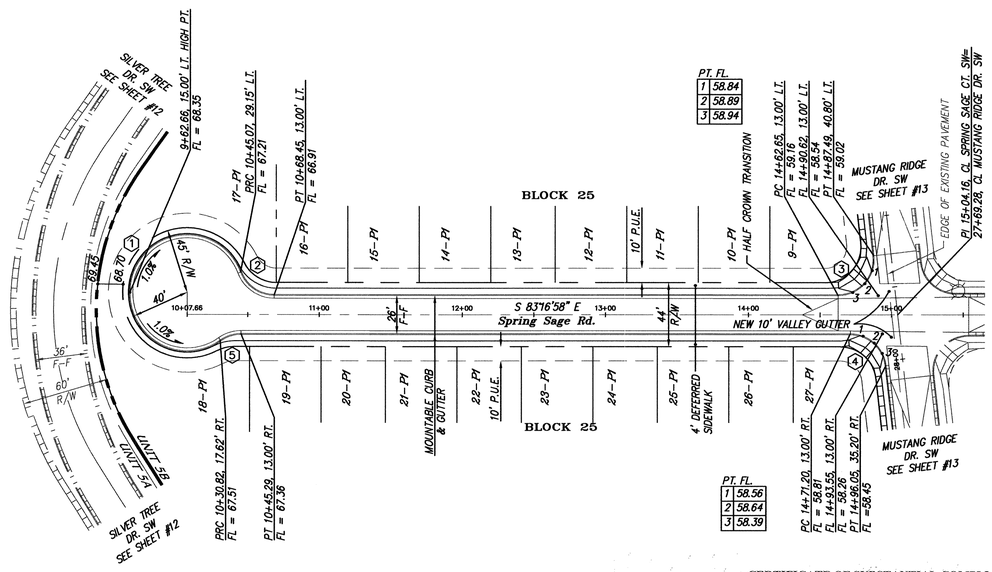
REGISTERED PROFESSIONAL ENGINEER GREGORY J. KRENIK 11929 11-21-02

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | REVISIONS | |

| | | DATE |
|---|---|---|
| DESIGNED BY | GJK | 05/02 |
| DRAWN BY | NHE | 05/02 |
| CHECKED BY | DMG | 05/02 |

SCANNED BY MESA REPRO

F:\A02JOBS\A2030 EL RANCHO GRANDE 5\ERG5\5B PLANS\2030-5B-PP5.dwg, Model, 10/14/02 08:17:58 AM, Mark Goodwin & Associates Plotted by NHE




## NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

### CURVE DATA – DESCRIBES FACE OF NEW CURB

1. Δ = 284°39'05" R = 40.00' T = N/A L = 198.72'
2. Δ = 69°16'40" R = 25.00' T = 17.27' L = 30.23'
3. Δ = 96°25'16" R = 25.00' T = 27.97' L = 42.07'
4. Δ = 83°34'44" R = 25.00' T = 22.34' L = 36.47'
5. Δ = 35°22'25" R = 25.00' T = 7.97' L = 15.43'

### CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Gregory J. Krenik, NMPE 11929, of the firm Mark Goodwin & Associates, PA, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by ALS, Inc., NMPS number 7719.

GREGORY JAMES KRENIK NEW MEXICO 11929 REGISTERED PROFESSIONAL ENGINEER 11-14-02

seal & signature

N

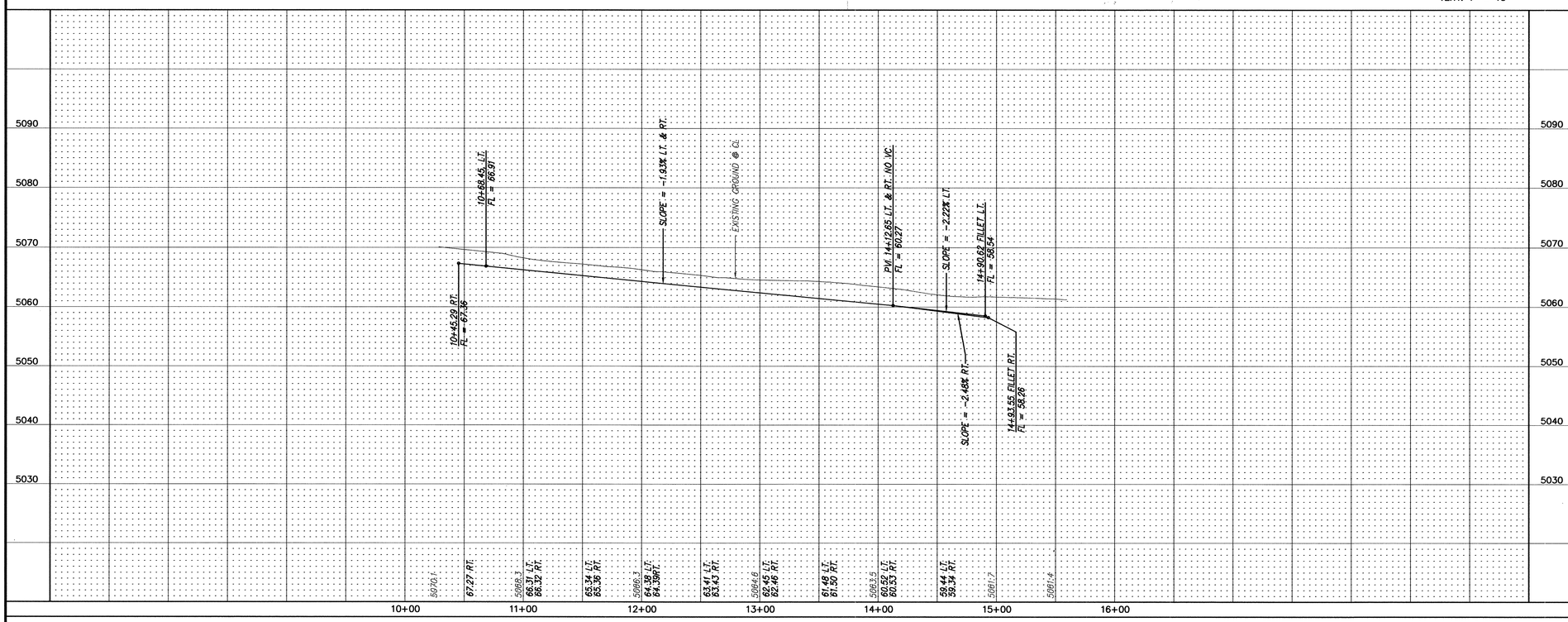
50' 25' 0 50' 100'

SCALE: 1" = 50'

*SPRING SAGE CT. SW*

STA. 10+28.74 TO STA. 15+04.16

SCALE: HORZ. 1" = 50'
VERT. 1" = 10'




A2030 EL RANCHO GRANDE 5/ERG5/5BPLANS/2030-5B-PP6 10-31-02 NHE

SCANNED BY MESA REPRO

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 6 | 6 | 4 | 5 | 6 | . | 8 | 9 | 1 | 0 | 0 | 3 | | |


dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539


CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: *EL RANCHO GRANDE I - UNIT 5B*
*SPRING SAGE CT. SW*
*PAVING IMPROVEMENTS*

DESIGN REVIEW COMMITTEE: APPROVED NOV 27 2002 DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL: APPROVED DEC 24 2002 CITY ENGINEER

LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO. 645689 | ZONE MAP NO. M-9 & N-9 | SHEET 10 OF 22

AS BUILT INFORMATION

| | | |
|---|---|---|
| CONTRACTOR | NEW CONCEPTS | |
| WORK STAKED BY | ALS | DATE 9/03 |
| INSPECTOR'S ACCEPTANCE BY | ALGA | DATE 9/03 |
| FIELD VERIFICATION BY | ALS | DATE 9/03 |
| DRAWINGS CORRECT BY | ALS | DATE 9/03 |
| MICRO-FILM INFORMATION | | |
| RECORDED BY | | DATE |
| NO. | | |

BENCH MARKS

STATION "TRANS" IS LOCATED 6 MI. SOUTHWEST OF DOWNTOWN ALBUQUERQUE, IN THE R.O.W. OF A PLAINS ELECTRIC CO-OP TRANSMISSION LINE. TO REACH STATION FROM INTERSECTION OF CENTRAL AVE. & 98TH ST. SW, GO SOUTH ON 98TH ST. 1.2 MI. TO JUNCTION WITH GIBSON BLVD. & SNOW VISTA BLVD., THEN SOUTHEAST ALONG SNOW VISTA AND CO-OP ELECTRIC TRANSMISSION LINE 0.85 MI. TO PYLON NUMBERED "52". STATION IS JUST EAST OF THIS POINT.
X = 354,899.45, Y = 1,471,822.67, G-G = 0.99967921(NAD 1927)
"1-1/8" LOCATED ON SW COR. OF 98th & SAGE, NGVD 29 EL. = 5142.87

SURVEY INFORMATION

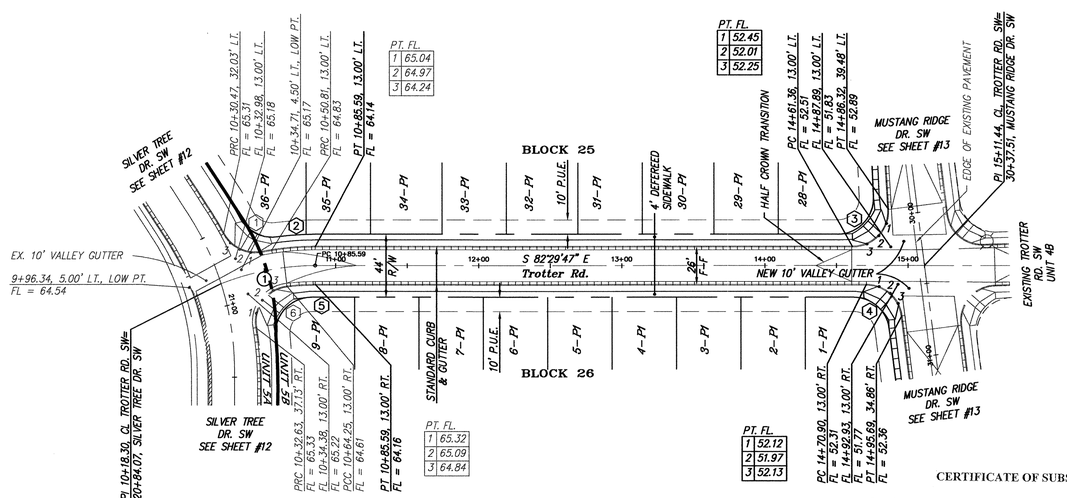
| NO. | BY | DATE | FIELD NOTES |
|---|---|---|---|

ENGINEER'S SEAL

GREGORY JAMES KRENIK NEW MEXICO 11929 REGISTERED PROFESSIONAL ENGINEER 11-14-02

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | REVISIONS | |
| | | DESIGN | |

| | | |
|---|---|---|
| DESIGNED BY | GJK | DATE 05/02 |
| DRAWN BY | NHE | DATE 05/02 |
| CHECKED BY | DMG | DATE 05/02 |




## NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

**CURVE DATA – DESCRIBES CENTERLINE**

(1) Δ = 21°25'14"
R = 180.00'
T = 34.04'
L = 67.29'

**CURVE DATA – DESCRIBES FACE OF NEW CURB**

(1) Δ = 72°58'37"
R = 25.00'
T = 18.49'
L = 31.84'

(2) Δ = 11°04'19"
R = 193.00'
T = 18.71'
L = 37.30'

(3) Δ = 93°23'36"
R = 25.00'
T = 26.53'
L = 40.75'

(4) Δ = 82°47'33"
R = 25.00'
T = 22.04'
L = 36.13'

(5) Δ = 6°47'42"
R = 167.00'
T = 9.91'
L = 19.81'

(6) Δ = 93°02'16"
R = 25.00'
T = 26.36'
L = 40.60'

**CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS**

I, Gregory J. Krenik, NMPE 11929, of the firm Mark Goodwin & Associates, PA, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by ALS, Inc., NMPS number 7719.

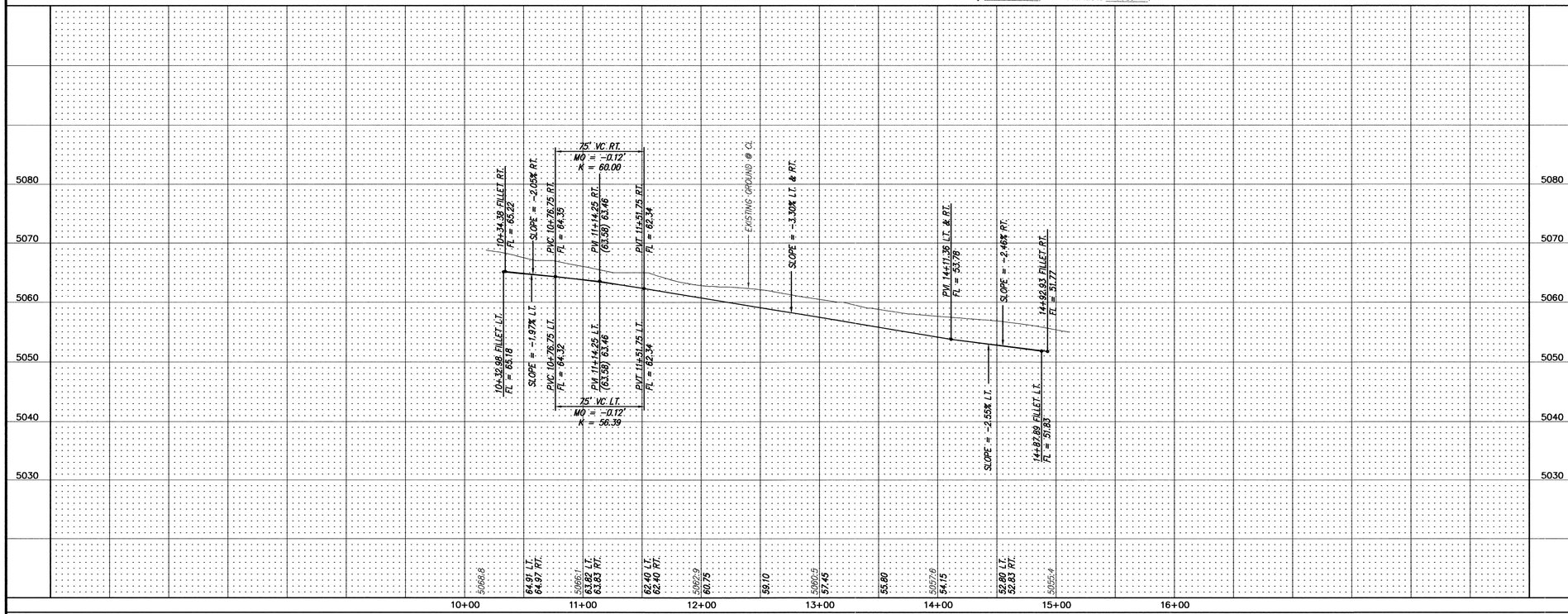
seal & signature

N

50' 25' 0 50' 100'

SCALE: 1" = 50'

TROTTER RD. SW
STA. 10+18.30 TO STA. 15+11.44
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'




A2030 EL RANCHO GRANDE 5/ERG5/5BPLANS/2030-5B-PP7 11-04-02 NHE

AS BUILT INFORMATION

CONTRACTOR NEW CONCEPTS
WORK STAKED BY ALS DATE 1/03
INSPECTED BY MGA DATE 1/03
ACCEPTANCE BY ALS DATE 3/03
VERIFICATION BY ALS DATE 3/03
DRAWINGS CORRECTED BY ALS DATE 3/03

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

STATION "TRANS" IS LOCATED 6 MI. SOUTHWEST OF DOWNTOWN ALBUQUERQUE, IN THE R.O.W. OF A PLAINS ELECTRIC CO-OP TRANSMISSION LINE. TO REACH STATION FROM INTERSECTION OF CENTRAL AVE. & 98TH ST. SW, GO SOUTH ON 98TH ST. 1.2 MI. TO JUNCTION WITH GIBSON BLVD. & SNOW VISTA BLVD., THEN SOUTHEAST ALONG SNOW VISTA AND CO-OP ELECTRIC TRANSMISSION LINE 0.85 MI. TO PYLON NUMBERED "52". STATION IS JUST EAST OF THIS PYLON.
X = 354,899.45, Y = 1,471,822.67, C-G = 0.99967921(NAD 1927)
7-#6 LOCATED ON SW COR. OF 98th & SUG. NGVD 29 EL. = 5142.87

SURVEY INFORMATION

FIELD NOTES

| NO. | BY | DATE |
|---|---|---|
| | | |

ENGINEER'S SEAL

11-4-02

| NO. | BY | REMARKS | DATE |
|---|---|---|---|
| | | REVISIONS | |

DESIGN

| | | DATE |
|---|---|---|
| DESIGNED BY | GJK | 05/02 |
| DRAWN BY | NHE | 05/02 |
| CHECKED BY | DMG | 05/02 |

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 6456.39 1103

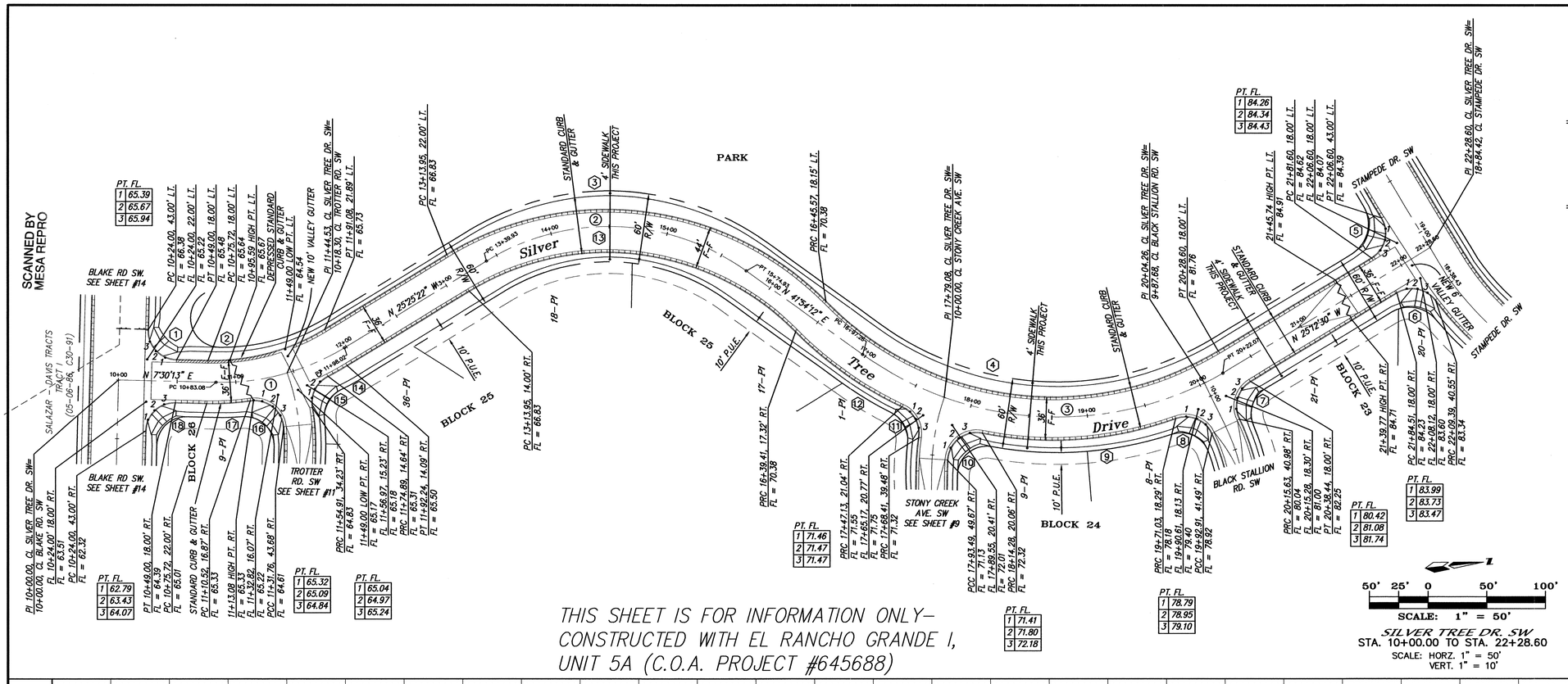

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539


CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: EL RANCHO GRANDE I - UNIT 5B
TROTTER RD. SW
PAVING IMPROVEMENTS

| DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR. |
|---|---|---|---|---|
| APPROVED NOV 27 2002 DESIGN REVIEW COMMITTEE | APPROVED DEC 24 2002 CITY ENGINEER | | | |

| CITY PROJECT NO. | ZONE MAP NO. | SHEET | OF |
|---|---|---|---|
| 645689 | M-9 & N-9 | 11 | 22 |




THIS SHEET IS FOR INFORMATION ONLY– CONSTRUCTED WITH EL RANCHO GRANDE I, UNIT 5A (C.O.A. PROJECT #645688)

## NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

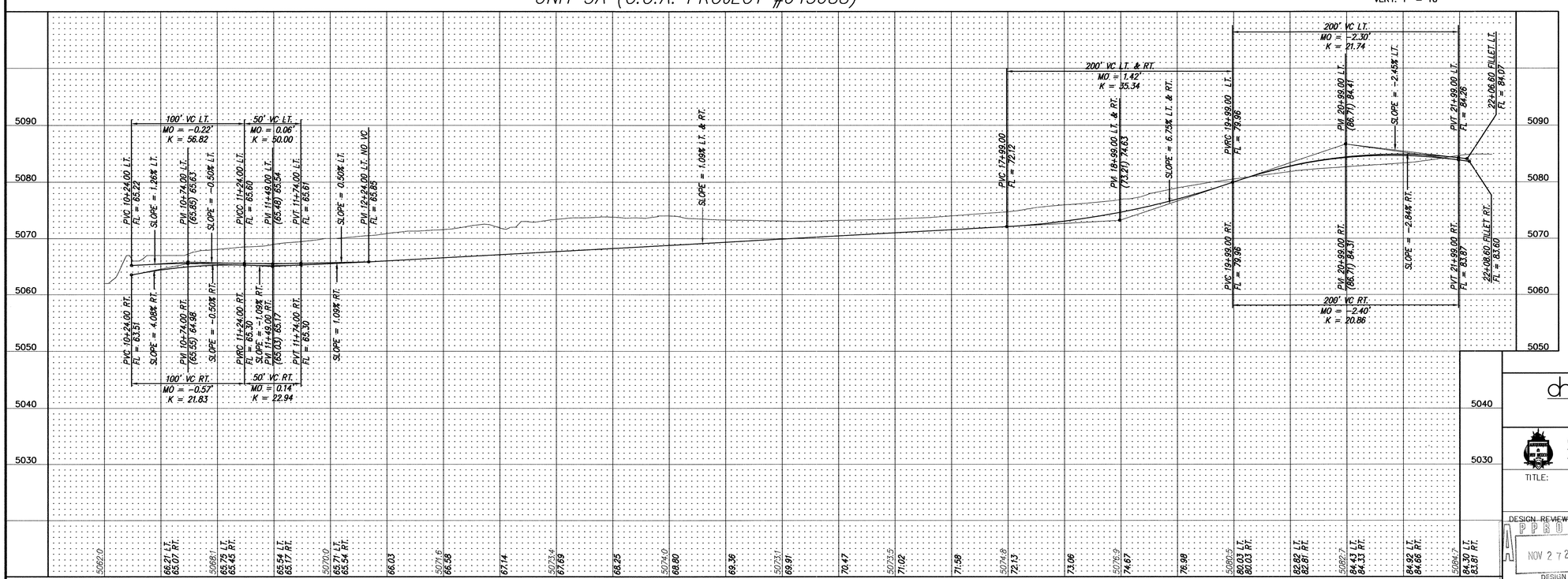
### CURVE DATA – DESCRIBES CENTERLINE

| | | |
|---|---|---|
| ① Δ = 32°55'35" | ② Δ = 67°19'30" | ③ Δ = 65°17'53" |
| R = 200.00' | R = 200.00' | R = 285.00' |
| T = 59.10' | T = 133.19' | T = 182.61' |
| L = 114.94' | L = 235.01' | L = 324.80' |

### CURVE DATA – DESCRIBES FACE OF NEW CURB

| | | |
|---|---|---|
| ① Δ = 90°00'00" | ② Δ = 32°55'35" | ③ Δ = 77°10'43" |
| R = 25.00' | R = 182.00' | R = 261.00' |
| T = 25.00' | T = 53.78' | T = 208.27' |
| L = 39.27' | L = 104.59' | L = 351.57' |
| ④ Δ = 76°57'51" | ⑤ Δ = 90°00'00" | ⑥ Δ = 84°22'57" |
| R = 271.00' | R = 25.00' | R = 25.00' |
| T = 215.42' | T = 25.00' | T = 22.66' |
| L = 364.03' | L = 39.27' | L = 36.82' |
| ⑦ Δ = 84°38'48" | ⑧ Δ = 84°06'29" | ⑨ Δ = 31°13'00" |
| R = 25.00' | R = 25.00' | R = 307.00' |
| T = 22.77' | T = 22.55' | T = 85.76' |
| L = 36.93' | L = 36.70' | L = 167.26' |
| ⑩ Δ = 97°48'46" | ⑪ Δ = 73°26'51" | ⑫ Δ = 20°51'57" |
| R = 25.00' | R = 25.00' | R = 307.00' |
| T = 28.66' | T = 18.65' | T = 56.53' |
| L = 42.68' | L = 32.05' | L = 111.80' |
| ⑬ Δ = 77°10'43" | ⑭ Δ = 4°53'26" | ⑮ Δ = 73°02'31" |
| R = 225.00' | R = 218.00' | R = 25.00' |
| T = 179.55' | T = 9.31' | T = 18.51' |
| L = 303.08' | L = 18.61' | L = 31.87' |
| ⑯ Δ = 92°56'30" | ⑰ Δ = 9°46'41" | ⑱ Δ = 90°00'00" |
| R = 25.00' | R = 218.00' | R = 25.00' |
| T = 26.32' | T = 18.65' | T = 25.00' |
| L = 40.55' | L = 37.20' | L = 39.27' |

SILVER TREE DR. SW
STA. 10+00.00 TO STA. 22+28.60
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'




26 6456.89 11203

MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: EL RANCHO GRANDE I - UNIT 5B
SILVER TREE DR. SW
PAVING IMPROVEMENTS

DESIGN REVIEW COMMITTEE: APPROVED NOV 27 2002 DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL: APPROVED DEC 24 2002 CITY ENGINEER

LAST DESIGN UPDATE: MO./DAY/YR. MO./DAY/YR.

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | REVISIONS | |

| | | DATE |
|---|---|---|
| DESIGNED BY | GJK | 05/02 |
| DRAWN BY | NHE | 05/02 |
| CHECKED BY | DMG | 05/02 |

CITY PROJECT NO. 645689 | ZONE MAP NO. M-9 & N-9 | SHEET 12 OF 22

AS BUILT INFORMATION

| | | |
|---|---|---|
| CONTRACTOR | NEW CONCEPTS | DATE 4/03 |
| WORK INSPECTED BY | AIS | DATE 4/03 |
| INSPECTOR'S ACCEPTANCE BY | MLG | DATE 4/03 |
| FIELD VERIFICATION BY | AIS | DATE 4/03 |
| DRAWINGS CORRECTED BY | AIS | DATE 4/03 |
| MICRO-FILM INFORMATION | | |
| RECORDED BY | | DATE |
| NO. | | |

BENCH MARKS

STATION "TRANS" IS LOCATED 6 MI. SOUTHWEST OF DOWNTOWN ALBUQUERQUE, IN THE R.O.W. OF A PLAINS ELECTRIC CO-OP TRANSMISSION LINE. TO REACH STATION FROM INTERSECTION OF CENTRAL AVE. & 98TH ST. SW, GO SOUTH ON 98TH ST. 1.2 MI. TO JUNCTION WITH GIBSON BLVD. & SNOW VISTA BLVD., THEN SOUTHEAST ALONG SNOW VISTA AND CO-OP ELECTRIC TRANSMISSION LINE 0.85 MI. TO PYLON NUMBERED "52". STATION IS JUST EAST OF THIS POINT.
X = 354,899.45, Y = 1,471,822.67, G-G = 0.99967921(NAD 1927)
"1-1/8" LOCATED ON SW CORN. OF 98th & SAGE, NGVD 29 EL. = 5147.87

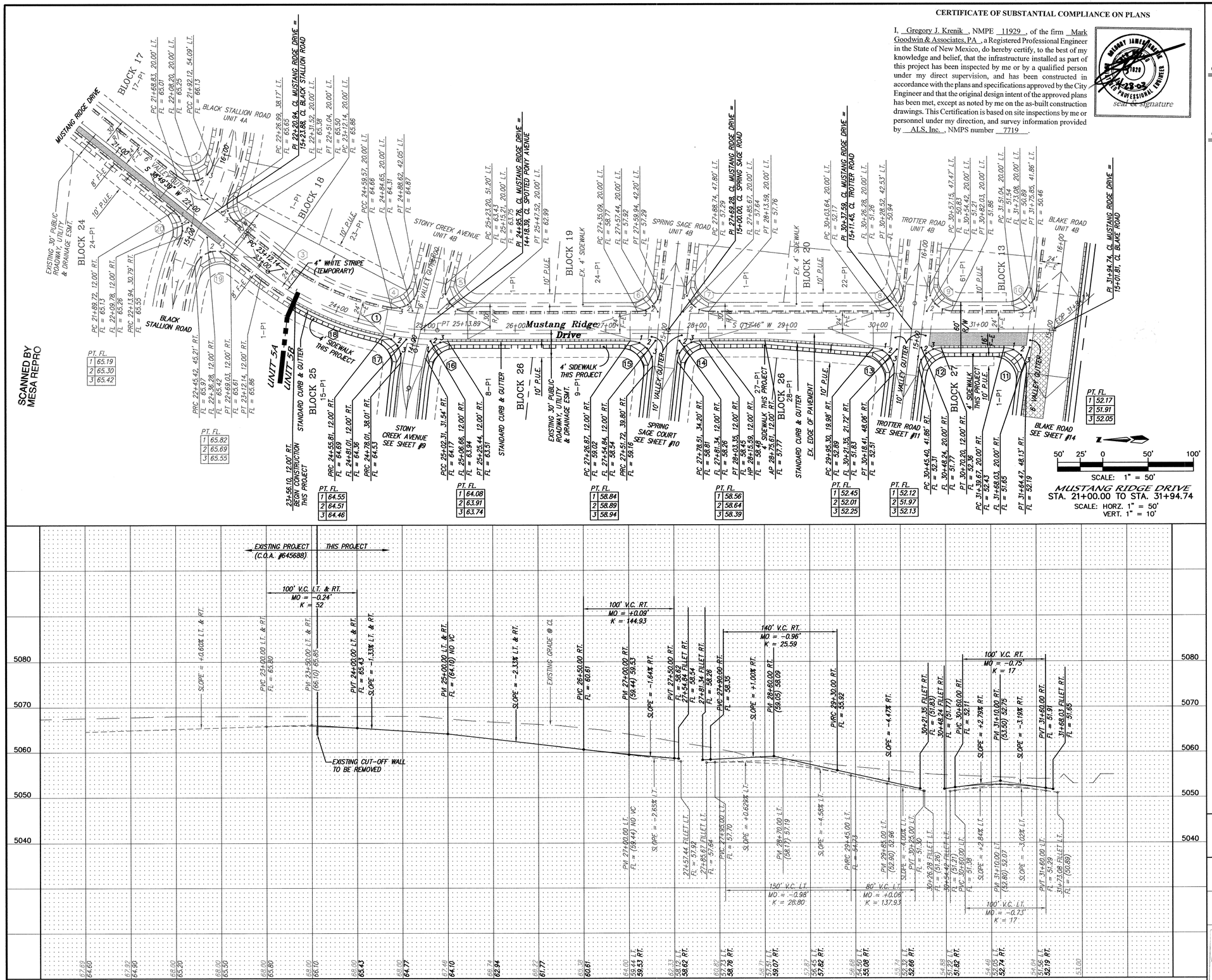
SURVEY INFORMATION

| NO. | BY | DATE | FIELD NOTES |
|---|---|---|---|

ENGINEER'S SEAL

A2030 EL RANCHO GRANDE 5/ERG5/5BPLANS/2030-5B-PP9 11-04-02 NHE

F:\A02JOBS\A2030 EL RANCHO GRANDE 5\ERG5\5B PLANS\2030-5B-PP9.dwg, Model, 11/04/02 01:47:16 PM, Mark Goodwin & Associates Plotted by NHE




SCANNED BY MESA REPRO

A2030 EL RANCHO GRANDE 5/ERG5/5BPLANS/2030-5B-PP11 11-04-02 NHE GJK

## CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Gregory J. Krenik, NMPE 11929, of the firm Mark Goodwin & Associates, PA, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by ALS, Inc., NMPS number 7719.

GREGORY JAMES KRENIK 11929 PROFESSIONAL ENGINEER 11-26-02

seal & signature

## NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

## CURVE DATA – DESCRIBES CENTERLINE

(1) Δ = 38°31'53"
R = 300.00'
T = 104.86'
L = 201.75'

## CURVE DATA – DESCRIBES FACE OF NEW CURB

| | | |
|---|---|---|
| (1) Δ = 111°19'17" R = 25.00' T = 36.59' L = 48.57' | (2) Δ = 74°08'26" R = 25.00' T = 18.89' L = 32.35' | (3) Δ = 28°09'22" R = 280.00' T = 70.22' L = 137.60' |
| (4) Δ = 86°00'24" R = 25.00' T = 23.32' L = 37.53' | (5) Δ = 104°22'06" R = 25.00' T = 32.21' L = 45.54' | (6) Δ = 83°34'44" R = 25.00' T = 22.34' L = 36.47' |
| (7) Δ = 96°25'16" R = 25.00' T = 27.97' L = 42.07' | (8) Δ = 84°20'01" R = 25.00' T = 22.64' L = 36.80' | (9) Δ = 95°39'59" R = 25.00' T = 27.60' L = 41.74' |
| (10) Δ = 82°47'33" R = 25.00' T = 22.04' L = 36.13' | (11) Δ = 97°11'53" R = 25.00' T = 28.36' L = 42.41' | (12) Δ = 82°47'33" R = 25.00' T = 22.04' L = 36.13' |
| (13) Δ = 93°23'36" R = 25.00' T = 26.53' L = 40.75' | (14) Δ = 83°34'44" R = 25.00' T = 22.34' L = 36.47' | (15) Δ = 96°25'16" R = 25.00' T = 27.97' L = 42.07' |
| (16) Δ = 76°48'04" R = 25.00' T = 19.82' L = 33.51' | (17) Δ = 90°11'13" R = 25.00' T = 25.08' L = 39.35' | (18) Δ = 27°26'14" R = 312.00' T = 76.17' L = 149.41' |
| (19) Δ = 109°09'58" R = 25.00' T = 35.16' L = 47.63' | (20) Δ = 75°36'21" R = 25.00' T = 19.39' L = 32.99' | |

## LEGEND

ARTERIAL PAVEMENT (6" AC)
BLAKE
THIS PROJECT

ENTRANCE PAVEMENT (3 1/2" AC)
THIS PROJECT

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 6456.89 1303

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: EL RANCHO GRANDE I - UNIT 5B
MUSTANG RIDGE DR. SW
PAVING IMPROVEMENTS

| DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR. |
|---|---|---|---|---|
| APPROVED NOV 27 2002 DESIGN REVIEW COMMITTEE | APPROVED DEC 24 2002 CITY ENGINEER | | | |

CITY PROJECT NO. 645689 | ZONE MAP NO. M-9&N-9 | 22 | 13 22

AS BUILT INFORMATION

| | | |
|---|---|---|
| CONTRACTOR | NEW Concepts | DATE 03 |
| WORK STAKED BY | ALS | DATE 1/01 |
| INSPECTORS ACCEPTANCE BY | MGA | DATE 03 |
| FIELD VERIFICATION BY | ALS | DATE 03 |
| DRAWINGS CORRECTED BY | ALS | DATE 03 |

MICRO-FILM INFORMATION

| | |
|---|---|
| RECORDED BY | DATE |
| NO. | |

BENCH MARKS

STATION "TRANS" IS LOCATED 6 MI. SOUTHWEST OF DOWNTOWN ALBUQUERQUE, IN THE R.O.W. OF A PLAINS ELECTRIC CO-OP TRANSMISSION LINE. TO REACH STATION FROM INTERSECTION OF CENTRAL AVE. & 98TH ST. SW, GO SOUTH ON 98TH ST. 1.2 MI. TO JUNCTION WITH GIBSON BLVD. & SNOW VISTA BLVD., THEN SOUTHEAST ALONG SNOW VISTA AND CO-OP ELECTRIC TRANSMISSION LINE 0.85 MI. TO PYLON, NUMBERED "52". STATION IS JUST EAST OF THIS POINT.
X = 354,899.45, Y = 1,471,822.67, G-G = 0.9996792(NAD 1927)
"7-1/9" LOCATED ON SW COR. OF 98th & SAGE, NGVD 29 EL. = 5147.87

SURVEY INFORMATION

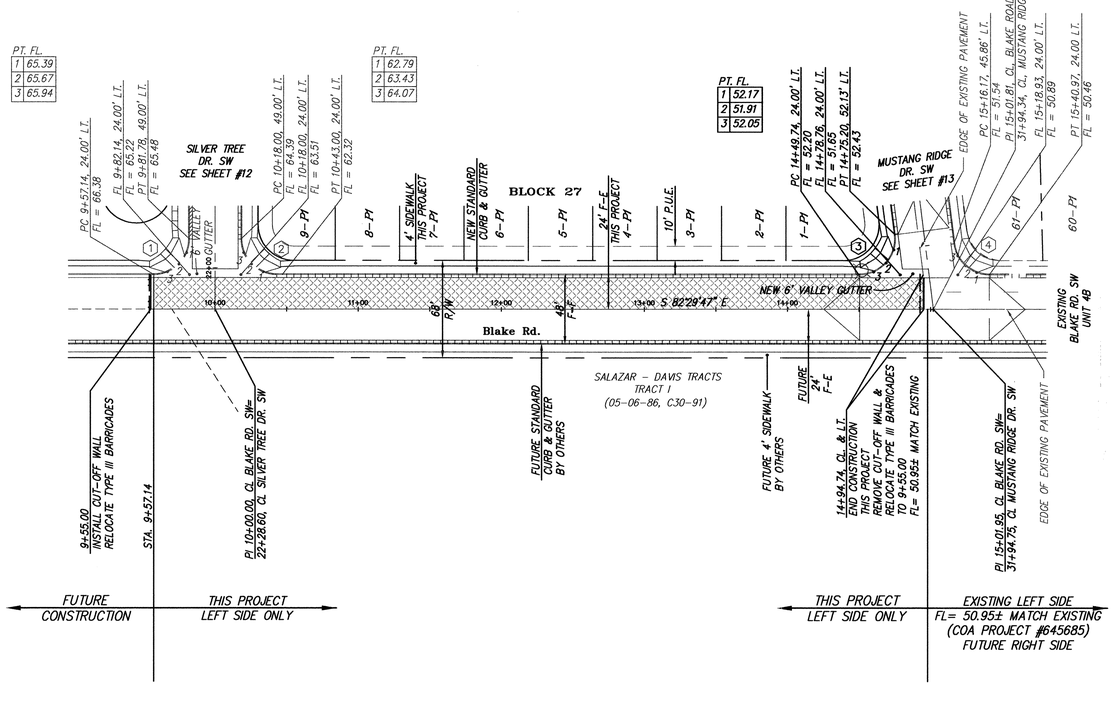
| NO. | BY | DATE | FIELD NOTES |
|---|---|---|---|
| | | | |

ENGINEER'S SEAL

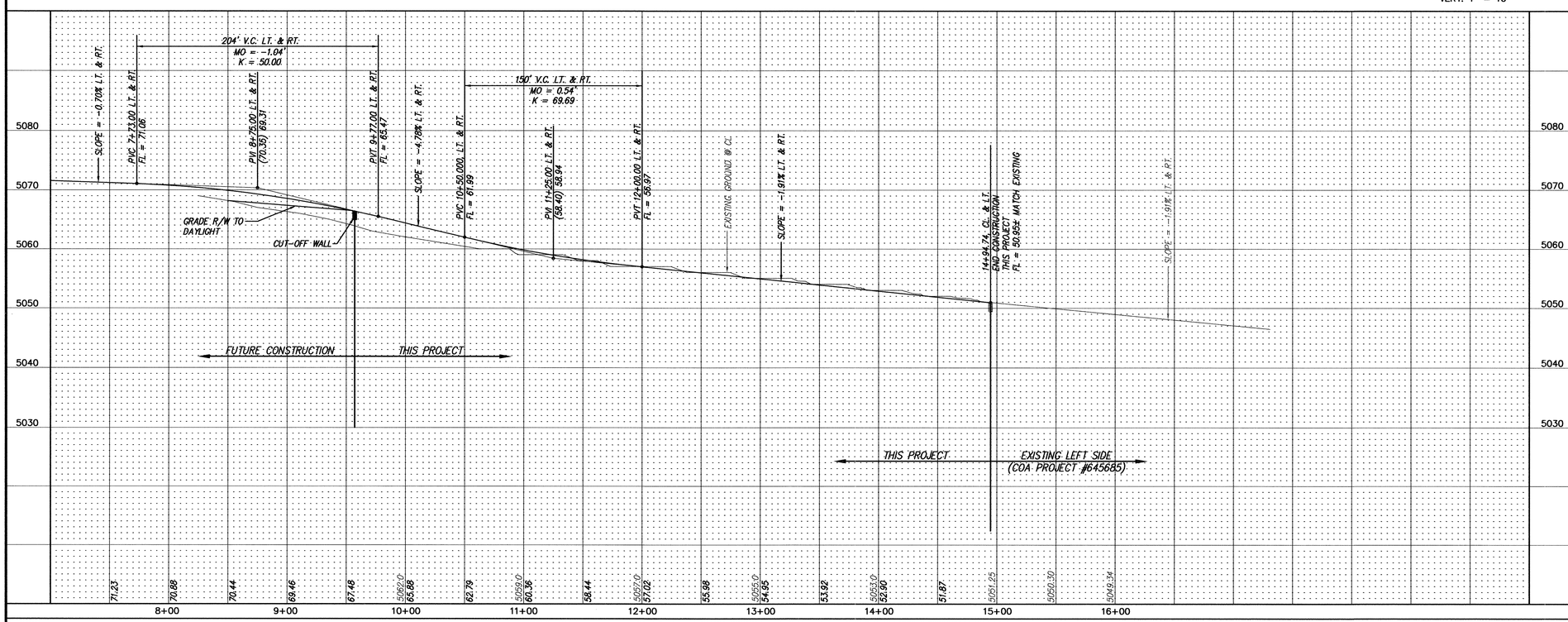
| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | | |

REVISIONS

| | | DATE |
|---|---|---|
| DESIGNED BY | JDH | 03/01 |
| DRAWN BY | NHM | 03/01 |
| CHECKED BY | DMG | 03/01 |




BLAKE RD. SW
STA. 10+00.00 TO STA. 15+01.95
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'




## NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

**CURVE DATA – DESCRIBES FACE OF NEW CURB**

1. Δ = 90°00'00" R = 25.00' T = 25.00' L = 39.27'
2. Δ = 90°00'00" R = 25.00' T = 25.00' L = 39.27'
3. Δ = 98°42'03" R = 25.00' T = 29.12' L = 43.07'
4. Δ = 82°47'33" R = 25.00' T = 22.04' L = 36.13'

**CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS**

I, Gregory J. Krenik, NMPE 11929, of the firm Mark Goodwin & Associates, PA, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by ALS, Inc., NMPS number 7719.

seal & signature

SCALE: 1" = 50'

## LEGEND

ARTERIAL PAVEMENT (6" AC)
BLAKE
THIS PROJECT

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 6456.89 1403


MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539


CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: EL RANCHO GRANDE I - UNIT 5B
BLAKE RD. SW
PAVING IMPROVEMENTS

| DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR. |
|---|---|---|---|---|
| APPROVED NOV 27 2002 DESIGN REVIEW COMMITTEE | APPROVED DEC 24 2002 CITY ENGINEER | | | |

| CITY PROJECT NO. | ZONE MAP NO. | SHEET | OF |
|---|---|---|---|
| 645689 | M-9 & N-9 | 14 | 22 |

SURVEY INFORMATION

FIELD NOTES

| NO. | BY | DATE |
|---|---|---|
| | | |

BENCH MARKS

STATION "TRANS" IS LOCATED 6 MI. SOUTHWEST OF DOWNTOWN ALBUQUERQUE, IN THE R.O.W. OF A PLAINS ELECTRIC CO-OP TRANSMISSION LINE. TO REACH STATION FROM INTERSECTION OF CENTRAL AVE. & 98TH ST. SW, GO SOUTH ON 98TH ST. 1.2 MI. TO JUNCTION WITH GIBSON BLVD. & SNOW VISTA BLVD., THEN SOUTHEAST ALONG SNOW VISTA AND CO-OP ELECTRIC TRANSMISSION LINE 0.85 MI. TO PYLON NUMBERED "52". STATION IS JUST EAST OF THIS POINT.
X = 354,899.45, Y = 1,471,822.67, G-G = 0.99967921(NAD 1927)
"7-49" LOCATED ON SW COR. OF 98th & SAGE. NGVD 29 EL. = 5147.87

AS BUILT INFORMATION

| | | |
|---|---|---|
| CONTRACTOR | NEW CONCEPTS | DATE 03/07/03 |
| WORK STAKED BY | ALS | DATE |
| ASBUILTS BY | MGA | DATE 4/03 |
| ACCEPTANCE BY | | DATE |
| FIELD VERIFICATION BY | ALS | DATE 4/03 |
| DRAWINGS CORRECTED BY | | DATE |
| MICRO-FILM INFORMATION | | |
| RECORDED BY | | DATE |
| NO. | | |

ENGINEER'S SEAL

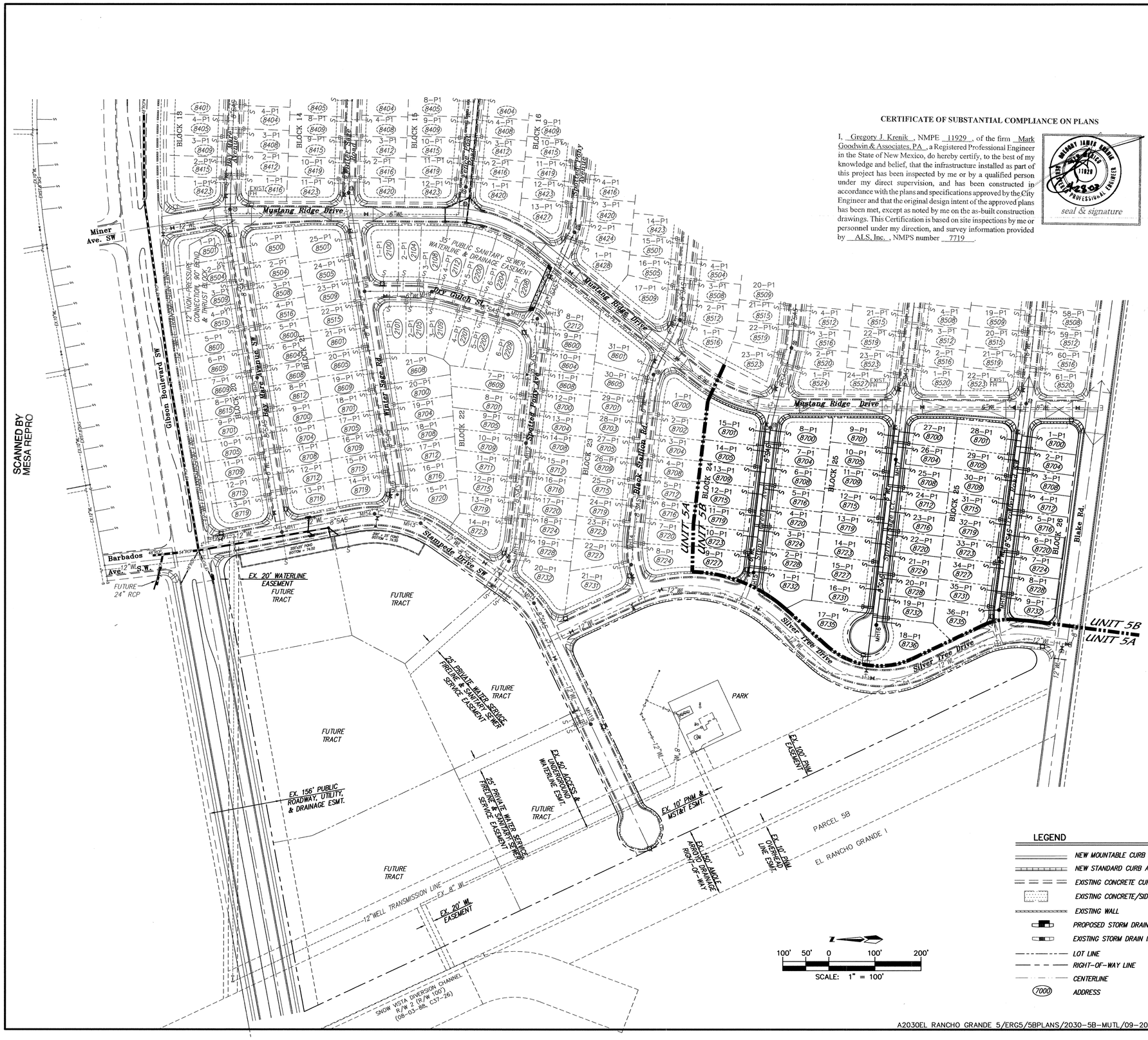
| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | | |

REVISIONS

| | | |
|---|---|---|
| DESIGNED BY | GJK | DATE 05/02 |
| DRAWN BY | NHE | DATE 05/02 |
| CHECKED BY | DMG | DATE 05/02 |

SCANNED BY MESA REPRO

F:\A02JOBS\A2030 EL RANCHO GRANDE 5\ERG5\5B PLANS\2030-5B-PP8.dwg, Model, 11/04/02 01:49:44 PM, Mark Goodwin & Associates Plotted by NHE




SCANNED BY MESA REPRO

## CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Gregory J. Krenik, NMPE 11929, of the firm Mark Goodwin & Associates, PA, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by ALS, Inc., NMPS number 7719.

GREGORY JAMES KRENIK — NEW MEXICO — 11929 — PROFESSIONAL ENGINEER — 12-23-02

seal & signature

## NOTES

1. ALL FIRE HYDRANTS ARE 4' BURY UNLESS OTHERWISE SPECIFIED.

## WATER SHUT-OFF NOTES

1. ALL LINES THAT THIS PROJECT CONNECTS TO ARE STUB OUTS WITH VALVES, THERE ARE NO VALVES TO SHUT-OFF.

| RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.) | | | | | |
|---|---|---|---|---|---|
| PIPE SIZE | 90° | 45° | 22.5° | 11.25° | VALVE |
| 6" | 17' | 7' | 3' | 2' | 46' |
| 8" | 22' | 9' | 4' | 2' | 60' |
| 12" | 30' | 12' | 6' | 3' | 85' |

LENGTH OF RESTRAINED PIPE ON EACH SIDE OF THE BEND. RESTRAIN BRANCH AT FITTING ONLY MINIMUM ATTACHED PIPE LENGTH, RUN SIDE OF TEE: 10.00 FEET.

| RESTRAINED JOINT LENGTHS FOR REDUCERS (FT.) | | |
|---|---|---|
| PIPE SIZE | LARGE SIDE | SMALL SIDE |
| 8"x6" | 25' | 33' |

| RESTRAINED JOINT LENGTH FOR TEES (FT.) | | |
|---|---|---|
| PIPE SIZE | RUN | BRANCH |
| 12"x12"x8" | 8' | 5' |
| 12"x12"x6" | 5' | 1' |
| 8"x8"x6" | 7' | 5' |
| 6"x6"x6" | 10' | 2' |

## LEGEND

- NEW MOUNTABLE CURB AND GUTTER
- NEW STANDARD CURB AND GUTTER
- EXISTING CONCRETE CURB AND GUTTER
- EXISTING CONCRETE/SIDEWALK
- EXISTING WALL
- PROPOSED STORM DRAIN INLET
- EXISTING STORM DRAIN INLET
- LOT LINE
- RIGHT-OF-WAY LINE
- CENTERLINE
- (7000) ADDRESS

N

100' 50' 0 100' 200'

SCALE: 1" = 100'

A2030EL RANCHO GRANDE 5/ERG5/5BPLANS/2030-5B-MUTL/09-20-02/ GJK MJR NHE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 64556.89 1503

AS BUILT INFORMATION

| | | |
|---|---|---|
| CONTRACTOR | NEW CONCEPTS | |
| WORK STAKED BY | ALS | DATE 03 |
| ASBUILTS BY | ALS | DATE 1/03 |
| ACCEPTANCE BY | MGA | DATE |
| FIELD VERIFICATION BY | ALS | DATE 1/03 |
| DRAWINGS CORRECTED BY | ALS | DATE 1/03 |
| MICRO-FILM INFORMATION | | |
| RECORDED BY | | DATE |
| NO. | | |

BENCH MARKS

STATION "TRANS" IS LOCATED 6 MI. SOUTHWEST OF DOWNTOWN ALBUQUERQUE, IN THE R.O.W. OF A PLAINS ELECTRIC CO-OP TRANSMISSION LINE. TO REACH STATION FROM INTERSECTION OF CENTRAL AVE. & 98TH ST. SW, GO SOUTH ON 98TH ST. 1.2 MI. TO JUNCTION WITH GIBSON BLVD. & SNOW VISTA BLVD., THEN SOUTHEAST ALONG SNOW VISTA AND CO-OP ELECTRIC TRANSMISSION LINE 0.85 MI. TO PYLON NUMBERED "52". STATION IS JUST EAST OF THIS POINT.
X = 354,899.45, Y = 1,471,822.67, G-G = 0.99967921(NAD 1927)
"J-19" LOCATED ON SW COR. OF 98th & SAGE. NGVD 29 El. = 5147.87

SURVEY INFORMATION

| NO. | BY | DATE |
|---|---|---|
| | | |

FIELD NOTES

ENGINEER'S SEAL

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | | |

REVISIONS

| | | |
|---|---|---|
| DESIGN | | |
| DESIGNED BY | JDH | DATE 01/01 |
| DRAWN BY | NHM | DATE 01/01 |
| CHECKED BY | DMG | DATE 01/01 |

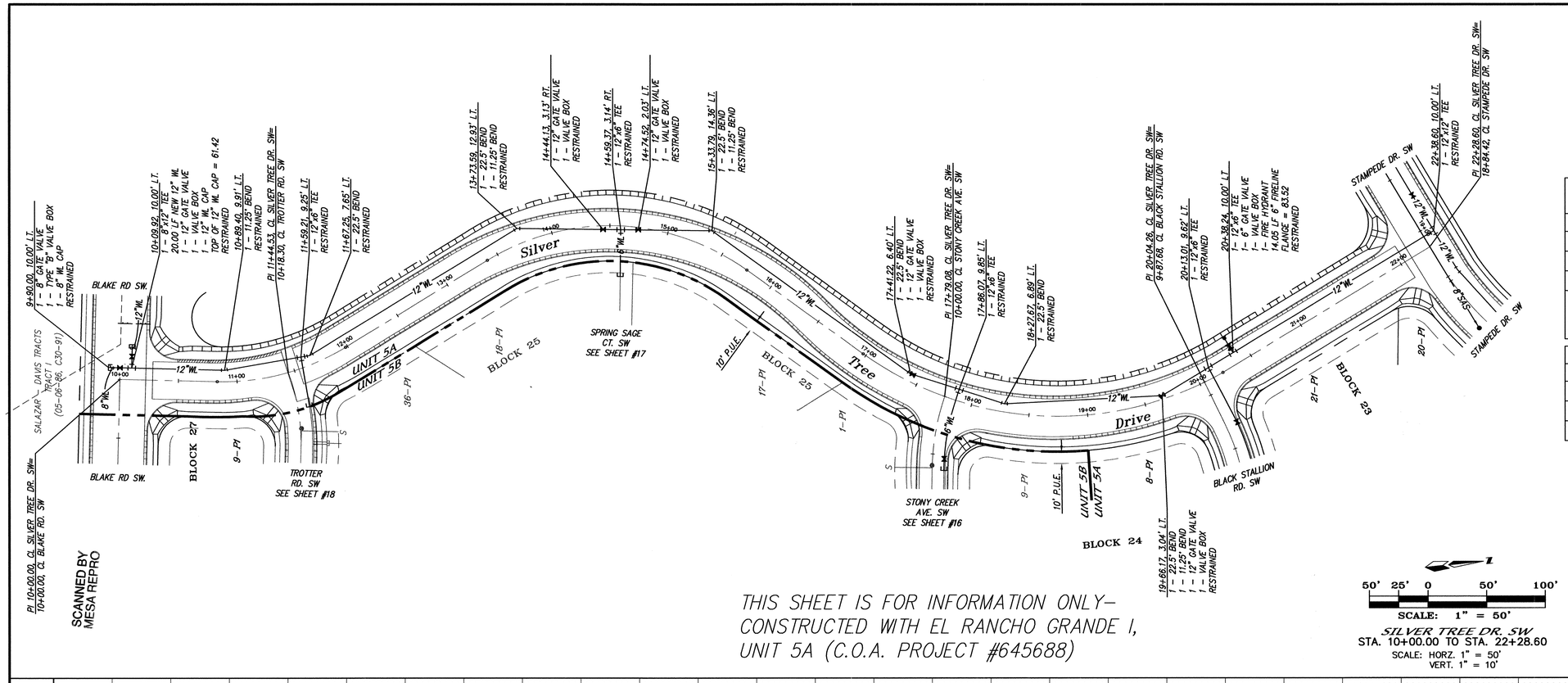

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539


CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: EL RANCHO GRANDE I, UNIT 5B MASTER UTILITY PLAN

| DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR. |
|---|---|---|---|---|
| APPROVED NOV 27 2002 DESIGN REVIEW COMMITTEE | APPROVED DEC 24 2002 CITY ENGINEER | | | |

| CITY PROJECT NO. | ZONE MAP NO. | SHEET | OF |
|---|---|---|---|
| 645689 | M-9 & N-9 | 15 | 22 |




SCANNED BY
MESA REPRO

THIS SHEET IS FOR INFORMATION ONLY–
CONSTRUCTED WITH EL RANCHO GRANDE I,
UNIT 5A (C.O.A. PROJECT #645688)

SILVER TREE DR. SW
STA. 10+00.00 TO STA. 22+28.60
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

## NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.
2. SEE SHEET ~~34~~ 22 OF ~~34~~ 22 FOR WATER VALVE BOX DETAIL, WATER RING & COVER FOR VALVE BOX DETAIL AND WATER METER DETAIL.
3. RISER REQUIRED WHEN INVERT AT P.U.E. IS GREATER THAN 2'-0" ABOVE MAIN LINE INVERT.

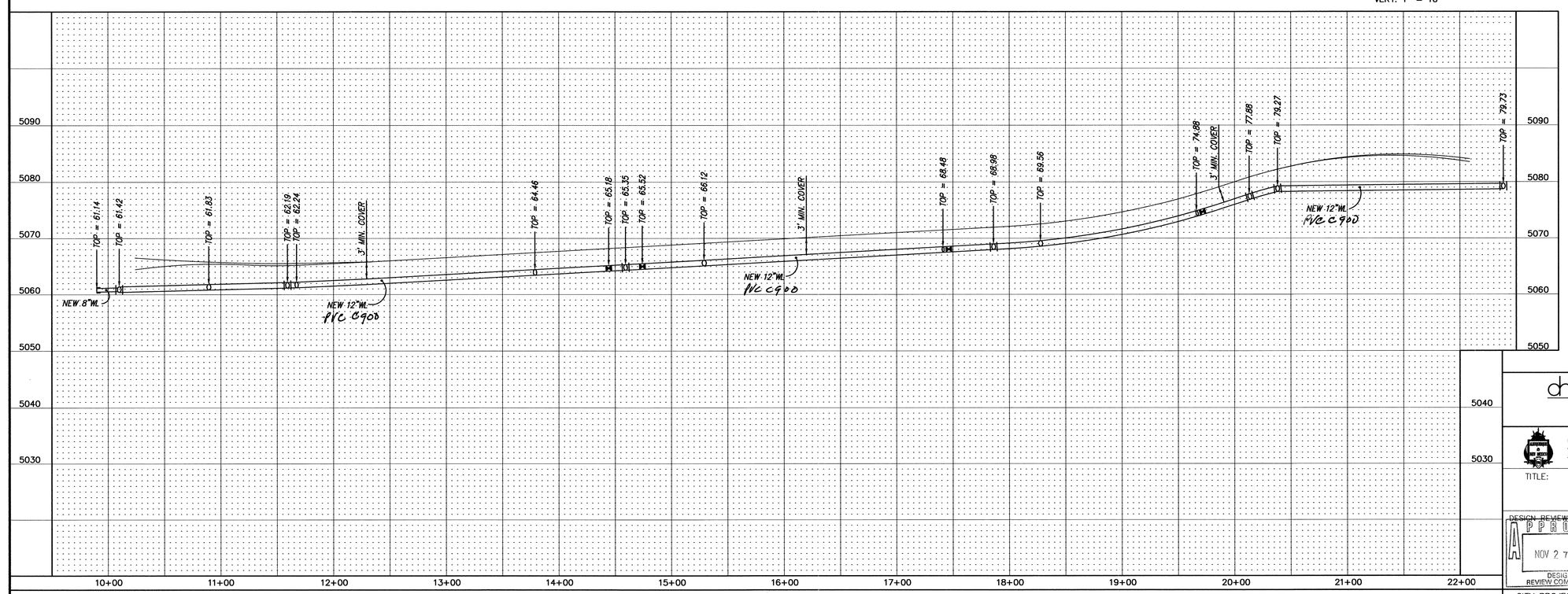
RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)

| PIPE SIZE | 90° | 45° | 22.5° | 11.25° | VALVE |
|---|---|---|---|---|---|
| 6" | 17' | 7' | 3' | 2' | 46' |
| 8" | 22' | 9' | 4' | 2' | 60' |
| 12" | 30' | 12' | 6' | 3' | 85' |

LENGTH OF RESTRAINED PIPE ON EACH SIDE OF THE BEND. RESTRAIN BRANCH AT FITTING ONLY MINIMUM ATTACHED PIPE LENGTH, RUN SIDE OF TEE: 10.00 FEET.

RESTRAINED JOINT LENGTH FOR TEES (FT.)

| PIPE SIZE | RUN | BRANCH |
|---|---|---|
| 12"x12"x8" | 8' | 5' |
| 12"x12"x6" | 5' | 1' |
| 6"x6"x6" | 10' | 2' |




1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 6456.89 1903

AS BUILT INFORMATION

| | | |
|---|---|---|
| CONTRACTOR | NEW Concepts | |
| WORK INSPECTOR'S | AIS | DATE 03 |
| ACCEPTANCE BY | | DATE 4/03 |
| FIELD VERIFICATION BY | AIS | DATE 4/03 |
| DRAWINGS CORRECTED BY | AIS | DATE 4/03 |
| MICRO-FILM INFORMATION | | |
| RECORDED BY | | DATE |
| NO. | | |

BENCH MARKS

STATION "TRANS" IS LOCATED 6 MI. SOUTHWEST OF DOWNTOWN ALBUQUERQUE, IN THE R.O.W. OF A PLAINS ELECTRIC CO-OP TRANSMISSION LINE. TO REACH STATION FROM INTERSECTION OF CENTRAL AVE. & 98TH ST. SW, GO SOUTH ON 98TH ST. 1.2 MI. TO JUNCTION WITH GIBSON BLVD. & SNOW VISTA BLVD., THEN SOUTHEAST ALONG SNOW VISTA AND CO-OP ELECTRIC TRANSMISSION LINE 0.85 MI. TO PYLON NUMBERED "52". STATION IS JUST EAST OF THIS POINT.
X = 354,899.45, Y = 1,471,822.67, G-G = 0.99967921(NAD 1927)
"1-HG" LOCATED ON SW COR. OF 98th & SAGE, NGVD 29 EL. = 5147.87

SURVEY INFORMATION

FIELD NOTES

| NO. | BY | DATE |
|---|---|---|
| | | |

ENGINEER'S SEAL

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | REVISIONS | |
| | | DESIGN | |

| | | DATE |
|---|---|---|
| DESIGNED BY | GK | 05/02 |
| DRAWN BY | NHE | 05/02 |
| CHECKED BY | DMG | 05/02 |


dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

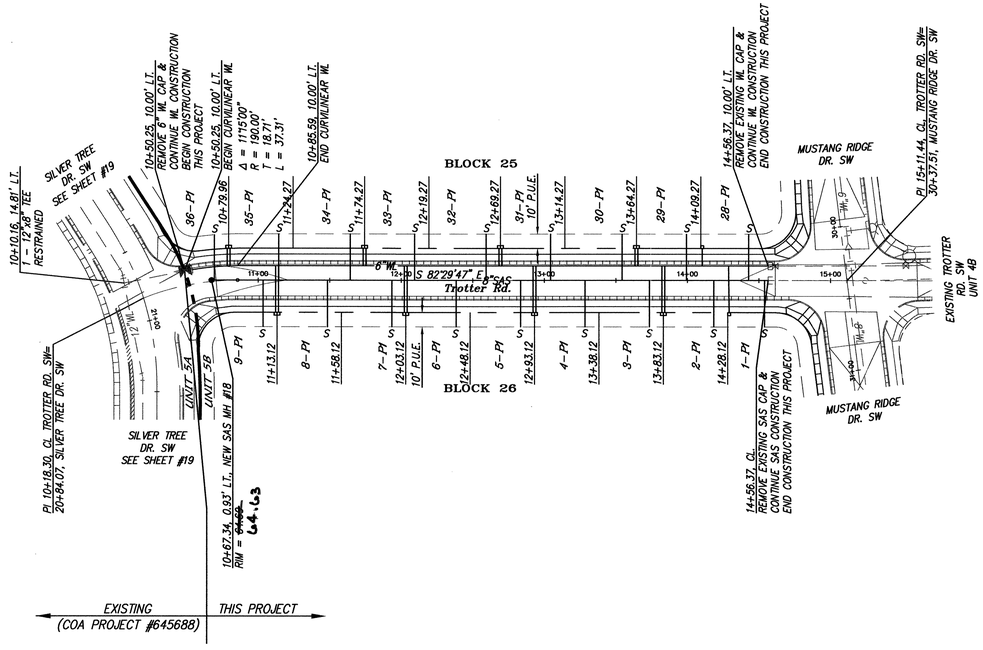

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: EL RANCHO GRANDE I - UNIT 5B
SILVER TREE DR. SW
UTILITY IMPROVEMENTS

| DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR. |
|---|---|---|---|---|
| APPROVED NOV 27 2002 DESIGN REVIEW COMMITTEE | APPROVED DEC 24 2002 CITY ENGINEER | | | |

| CITY PROJECT NO. | ZONE MAP NO. | SHEET | OF |
|---|---|---|---|
| 645689 | M-9 & N-9 | 19 | 22 |

A2030 EL RANCHO GRANDE 5/ERG5/5BPLANS/2030-5B-UT9/09-10-02/ NHE MJR



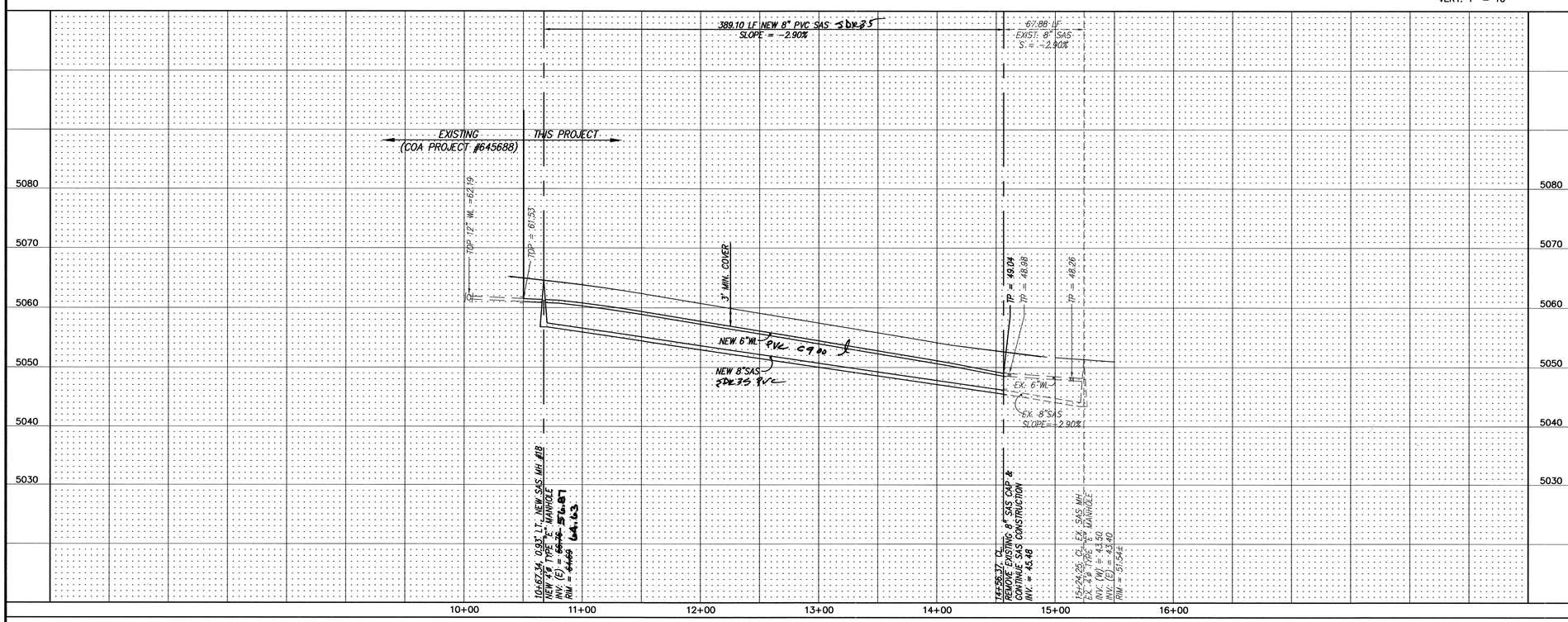

## CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Gregory J. Krenik, NMPE 11929, of the firm Mark Goodwin & Associates, PA, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by ALS, Inc., NMPS number 7719.

seal & signature

SCALE: 1" = 50'

TROTTER RD. SW
STA. 10+18.30 TO STA. 15+11.44
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'




## NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.
2. SEE SHEET 22 OF 22 FOR WATER VALVE BOX DETAIL, WATER RING & COVER FOR VALVE BOX DETAIL AND WATER METER DETAIL.
3. RISER REQUIRED WHEN INVERT AT P.U.E. IS GREATER THAN 2'-0" ABOVE MAIN LINE INVERT.

SANITARY SEWER SERVICES

| BLOCK | LOT | STATION AT PUE | INV. ELEV. AT PUE | LENGTH AT PUE |
|---|---|---|---|---|
| 25 | 28–P1 | 14+42.80 | 47.77 | 32.00' |
| 25 | 29–P1 | 13+99.27 | 49.12 | 32.00' |
| 25 | 30–P1 | 13+54.27 | 50.43 | 32.00' |
| 25 | 31–P1 | 13+04.27 | 51.89 | 32.00' |
| 25 | 32–P1 | 12+59.27 | 53.21 | 32.00' |
| 25 | 33–P1 | 12+09.27 | 54.67 | 32.00' |
| 25 | 34–P1 | 11+64.27 | 55.99 | 32.00' |
| 25 | 35–P1 | 11+14.27 | 57.45 | 32.00' |
| 25 | 36–P1 | 10+69.96 | 58.72 | 31.37' |
| 26 | 1–P1 | 14+53.90 | 47.52 | 32.00' |
| 26 | 2–P1 | 14+18.12 | 48.57 | 32.00' |
| 26 | 3–P1 | 13+73.12 | 49.88 | 32.00' |
| 26 | 4–P1 | 13+28.12 | 51.20 | 32.00' |
| 26 | 5–P1 | 12+83.12 | 52.51 | 32.00' |
| 26 | 6–P1 | 12+38.12 | 53.83 | 32.00' |
| 26 | 7–P1 | 11+93.12 | 55.14 | 32.00' |
| 26 | 8–P1 | 11+48.12 | 56.46 | 32.00' |
| 26 | 9–P1 | 11+03.12 | 57.77 | 32.00' |

RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)

| PIPE SIZE | 90° | 45° | 22.5° | 11.25° | VALVE |
|---|---|---|---|---|---|
| 6" | 17' | 7' | 3' | 2' | 46' |
| 8" | 22' | 9' | 4' | 2' | 60' |
| 12" | 30' | 12' | 6' | 3' | 85' |

LENGTH OF RESTRAINED PIPE ON EACH SIDE OF THE BEND. RESTRAIN BRANCH AT FITTING ONLY MINIMUM ATTACHED PIPE LENGTH, RUN SIDE OF TEE: 10.00 FEET.

RESTRAINED JOINT LENGTH FOR TEES (FT.)

| PIPE SIZE | RUN | BRANCH |
|---|---|---|
| 12"x12"x8" | 8' | 5' |
| 12"x12"x6" | 5' | 1' |
| 6"x6"x6" | 10' | 2' |

AS BUILT INFORMATION

CONTRACTOR NEW Concepts
WORK STAKED BY ALS DATE 07
RUSHED BY ACCEPTANCE BY ALS DATE 7/03
VERIFICATION BY ALS DATE 7/03
DRAWINGS CORRECTED BY ALS DATE 7/03
MICRO-FILM INFORMATION
RECORDED BY DATE
NO. DATE

BENCH MARKS

STATION "TRANS" IS LOCATED 6 MI. SOUTHWEST OF DOWNTOWN ALBUQUERQUE, IN THE R.O.W. OF A PLAINS ELECTRIC CO-OP TRANSMISSION LINE. TO REACH STATION FROM INTERSECTION OF CENTRAL AVE. & 98TH ST. SW, GO SOUTH ON 98TH ST. 1.2 MI. TO JUNCTION WITH GIBSON BLVD. & SNOW VISTA BLVD. THEN SOUTHEAST ALONG SNOW VISTA AND CO-OP ELECTRIC TRANSMISSION LINE 0.85 MI. TO PYLON NUMBERED "52". STATION IS JUST EAST OF THIS POINT.
X = 354,899.45, Y = 1,471,822.67, C-G = 0.9996792(NAD 1927)
"7-H9" LOCATED ON SW COR. OF 98th & SAGE, NGVD 29 EL. = 5147.87

SURVEY INFORMATION

FIELD NOTES

| NO. | BY | DATE |
|---|---|---|
| | | |

ENGINEER'S SEAL

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | | |

REVISIONS

| | | DATE |
|---|---|---|
| DESIGNED BY | GJK | 05/02 |
| DRAWN BY | NHE | 05/02 |
| CHECKED BY | DMG | 05/02 |


dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539


CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: EL RANCHO GRANDE I - UNIT 5B
TROTTER RD. SW
UTILITY IMPROVEMENTS

DESIGN REVIEW COMMITTEE: APPROVED NOV 27 2002 DESIGN REVIEW COMMITTEE

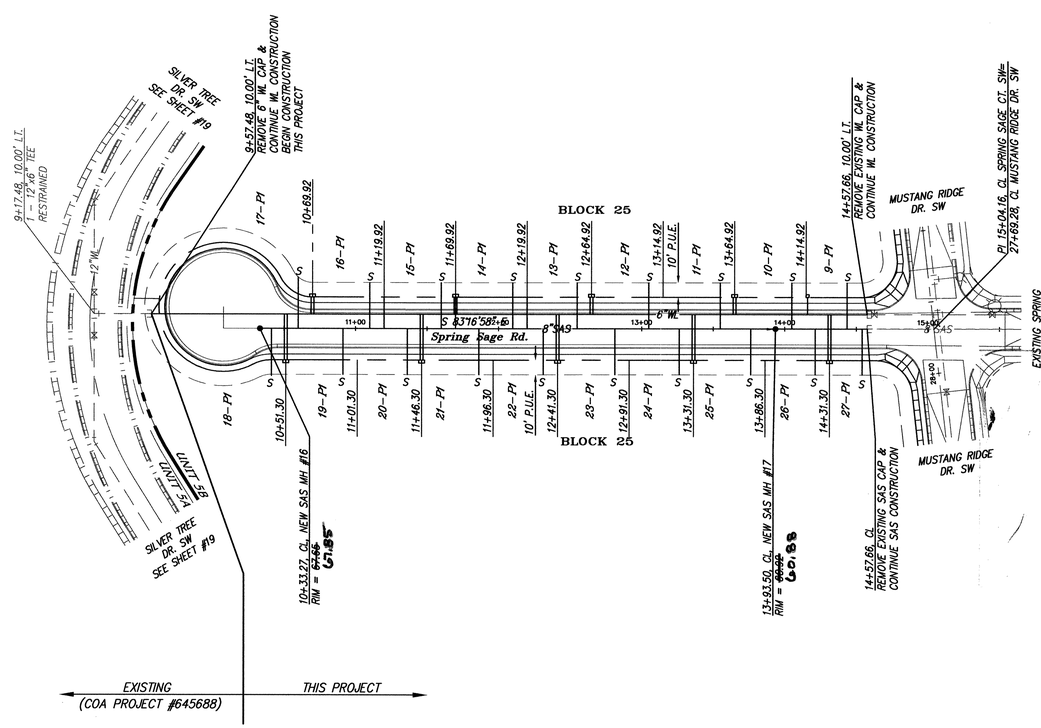
CITY ENGINEER APPROVAL: APPROVED DEC 24 2002 CITY ENGINEER

LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO. 645689 | ZONE MAP NO. M-9 & N-9 | SHEET 18 OF 22

A2030 EL RANCHO GRANDE 5/ERG5/5BPLANS/2030-5B-UT7/09-20-02/ NHE MJR

26 645689 1803




## NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.
2. SEE SHEET 22 OF 22 FOR WATER VALVE BOX DETAIL, WATER RING & COVER FOR VALVE BOX DETAIL AND WATER METER DETAIL.
3. RISER REQUIRED WHEN INVERT AT P.U.E. IS GREATER THAN 2'-0" ABOVE MAIN LINE INVERT.

SANITARY SEWER SERVICES

| BLOCK | LOT | STATION AT PUE | INV. ELEV. AT PUE | LENGTH AT PUE |
|---|---|---|---|---|
| 25 | 9–P1 | 14+43.52 | 54.26 | 32.00' |
| 25 | 10–P1 | 14+04.92 | 55.06 | 32.00' |
| 25 | 11–P1 | 13+54.92 | 56.03 | 32.00' |
| 25 | 12–P1 | 13+04.92 | 57.01 | 32.00' |
| 25 | 13–P1 | 12+54.92 | 57.99 | 32.00' |
| 25 | 14–P1 | 12+09.92 | 58.87 | 32.00' |
| 25 | 15–P1 | 11+59.92 | 59.85 | 32.00' |
| 25 | 16–P1 | 11+09.92 | 60.84 | 32.00' |
| 25 | 17–P1 | 10+59.92 | 62.39 | 35.82' |
| 25 | 18–P1 | 10+41.30 | 62.18 | 32.82' |
| 25 | 19–P1 | 10+91.30 | 61.20 | 32.00' |
| 25 | 20–P1 | 11+86.30 | 60.32 | 32.00' |
| 25 | 21–P1 | 11+81.30 | 59.34 | 32.00' |
| 25 | 22–P1 | 12+31.30 | 58.45 | 32.00' |
| 25 | 23–P1 | 12+81.30 | 57.47 | 32.00' |
| 25 | 24–P1 | 13+26.30 | 56.59 | 32.00' |
| 25 | 25–P1 | 13+76.30 | 55.61 | 32.00' |
| 25 | 26–P1 | 14+21.30 | 54.72 | 32.00' |
| 25 | 27–P1 | 14+54.10 | 54.13 | 32.00' |

### CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

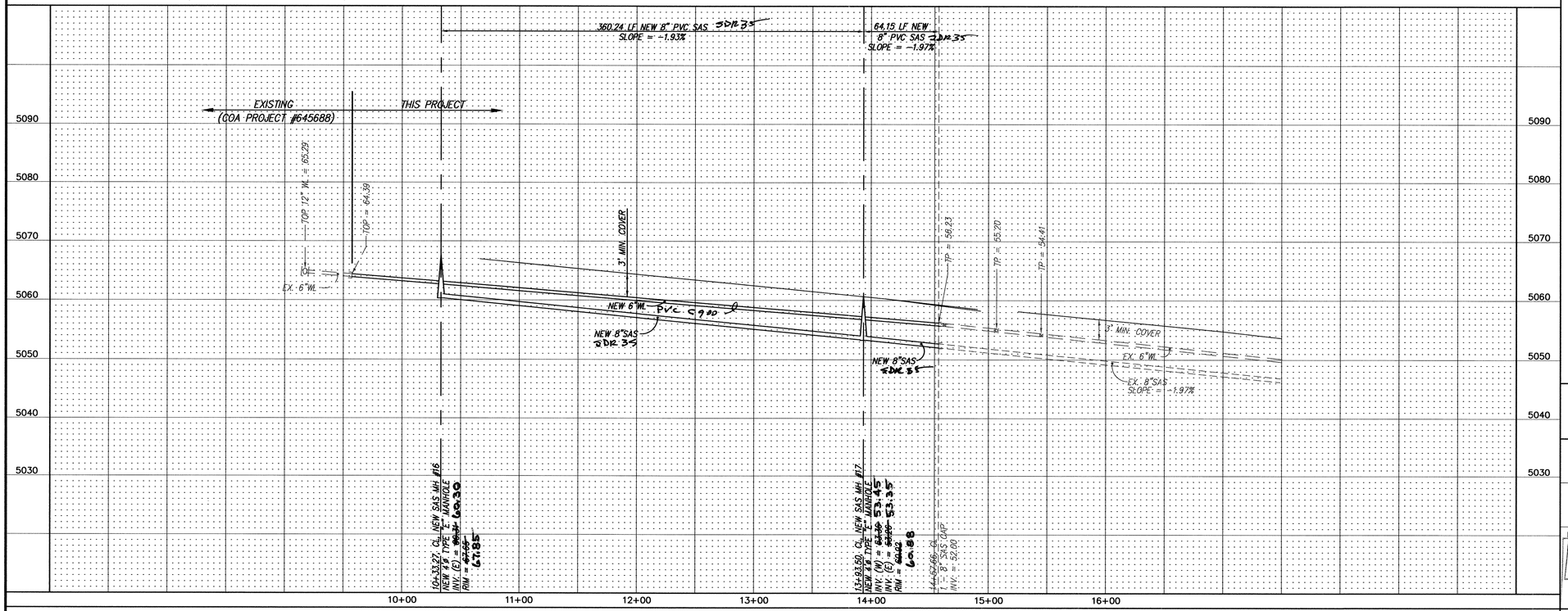
I, Gregory J. Krenik, NMPE 11929, of the firm Mark Goodwin & Associates, PA, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by ALS, Inc., NMPS number 7719.

GREGORY J. KRENIK NEW MEXICO 11929 PROFESSIONAL ENGINEER

seal & signature

SCALE: 1" = 50'

SPRING SAGE CT. SW
STA. 10+28.74 TO STA. 15+04.16
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'




RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)

| PIPE SIZE | 90° | 45° | 22.5° | 11.25° | VALVE |
|---|---|---|---|---|---|
| 6" | 17' | 7' | 3' | 2' | 46' |
| 8" | 22' | 9' | 4' | 2' | 60' |
| 12" | 30' | 12' | 6' | 3' | 85' |

LENGTH OF RESTRAINED PIPE ON EACH SIDE OF THE BEND. RESTRAIN BRANCH AT FITTING ONLY MINIMUM ATTACHED PIPE LENGTH, RUN SIDE OF TEE: 10.00 FEET.

RESTRAINED JOINT LENGTH FOR TEES (FT.)

| PIPE SIZE | RUN | BRANCH |
|---|---|---|
| 12"x12"x8" | 8' | 5' |
| 12"x12"x6" | 5' | 1' |
| 6"x6"x6" | 10' | 2' |


dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539


CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: EL RANCHO GRANDE I - UNIT 5B
SPRING SAGE CT. SW
UTILITY IMPROVEMENTS

| DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR. |
|---|---|---|---|---|
| APPROVED NOV 27 2002 DESIGN REVIEW COMMITTEE | APPROVED DEC 24 2002 CITY ENGINEER | | | |

| CITY PROJECT NO. | ZONE MAP NO. | SHEET | OF |
|---|---|---|---|
| 645689 | M-9 & N-9 | 17 | 22 |

AS BUILT INFORMATION

CONTRACTOR NEW CONCEPTS DATE 03
WORK STAKED BY ALS DATE 1/03
INSPECTOR ACCEPTANCE BY MCG DATE 1/03
FIELD VERIFICATION BY ALS DATE 1/03
DRAWINGS CORRECTED BY ALS DATE 1/03
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

STATION "TRANS" IS LOCATED 6 MI. SOUTHWEST OF DOWNTOWN ALBUQUERQUE, IN THE R.O.W. OF A PLAINS ELECTRIC CO-OP TRANSMISSION LINE. TO REACH STATION FROM INTERSECTION OF CENTRAL AVE. & 98TH ST. SW, GO SOUTH ON 98TH ST. 1.2 MI. TO JUNCTION WITH GIBSON BLVD. & SNOW VISTA BLVD., THEN SOUTHEAST ALONG SNOW VISTA AND CO-OP ELECTRIC TRANSMISSION LINE 0.85 MI. TO PYLON NUMBERED "52". STATION IS JUST EAST OF THIS POINT.
X = 354,899.45, Y = 1,471,822.67, C-G = 0.99967921(NAD 1927)
"7-H3" LOCATED ON SW COR. OF 98th & SJOE. NGVD 29 EL. = 5147.87

SURVEY INFORMATION

FIELD NOTES

| NO. | BY | DATE |
|---|---|---|
| | | |

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER GREGORY J. KRENIK NEW MEXICO 11929 12-19-02

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | REVISIONS | |

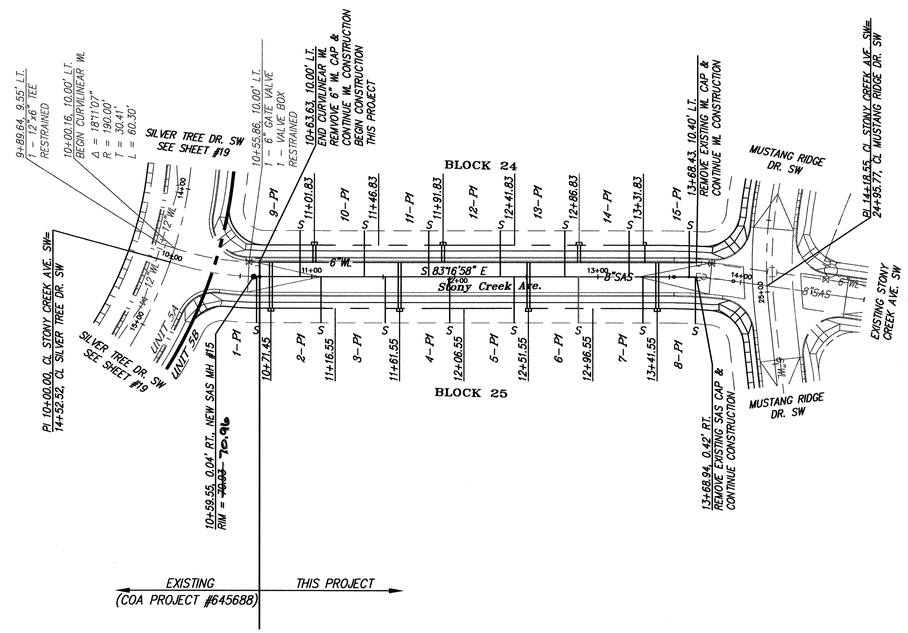
| | | |
|---|---|---|
| DESIGNED BY | GJK | DATE 05/02 |
| DRAWN BY | NHE | DATE 05/02 |
| CHECKED BY | DMG | DATE 05/02 |

SCANNED BY MESA REPRO

F:\A02JOBS\A2030 EL RANCHO GRANDE 5\ERG5\5B PLANS\2030-5B-UT6.dwg, Model, 10/14/02 08:24:49 AM, Mark Goodwin & Associates Plotted by NHE

A2030 EL RANCHO GRANDE 5/ERG5/5BPLANS/2030-5B-UT6/09-20-02/ NHE MJR

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
20 6456.89 17703




## CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Gregory J. Krenik, NMPE 11929, of the firm Mark Goodwin & Associates, PA, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by ALS, Inc., NMPS number 7719.

MICHAEL JAMES KRENIK
NEW MEXICO
11929
PROFESSIONAL ENGINEER
4-12-02
seal & signature

50' 25' 0 50' 100'
SCALE: 1" = 50'

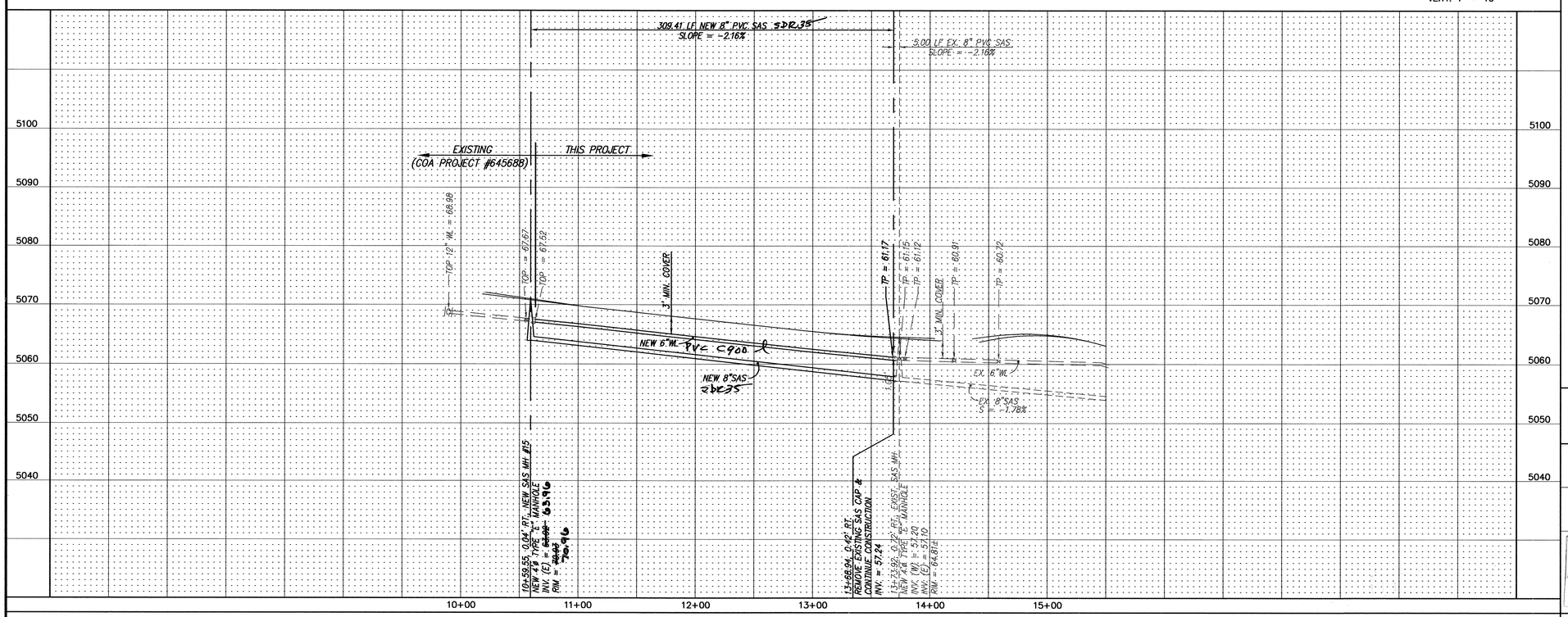
STONY CREEK AVE. SW
STA. 10+00.00 TO STA. 14+18.55
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

## NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.
2. SEE SHEET 22 OF 22 FOR WATER VALVE BOX DETAIL, WATER RING & COVER FOR VALVE BOX DETAIL AND WATER METER DETAIL.
3. RISER REQUIRED WHEN INVERT AT P.U.E. IS GREATER THAN 2'-0" ABOVE MAIN LINE INVERT.

### SANITARY SEWER SERVICES

| BLOCK | LOT | STATION AT PUE | INV. ELEV. AT PUE | LENGTH AT PUE |
|---|---|---|---|---|
| 24 | 9-P1 | 10+91.83 | 65.25 | 32.00' |
| 24 | 10-P1 | 11+36.83 | 64.27 | 32.00' |
| 24 | 11-P1 | 11+81.83 | 63.29 | 32.00' |
| 24 | 12-P1 | 12+31.83 | 62.20 | 32.00' |
| 24 | 13-P1 | 12+76.83 | 61.22 | 32.00' |
| 24 | 14-P1 | 13+21.83 | 60.35 | 32.00' |
| 24 | 15-P1 | 13+62.91 | 59.34 | 31.82' |
| 25 | 1-P1 | 10+61.45 | 65.26 | 32.00' |
| 25 | 2-P1 | 11+06.55 | 64.93 | 32.00' |
| 25 | 3-P1 | 11+51.55 | 63.95 | 32.00' |
| 25 | 4-P1 | 11+96.55 | 62.97 | 32.00' |
| 25 | 5-P1 | 12+41.55 | 61.99 | 32.00' |
| 25 | 6-P1 | 12+86.55 | 61.01 | 32.00' |
| 25 | 7-P1 | 13+31.55 | 60.03 | 32.00' |
| 25 | 8-P1 | 13+70.07 | 59.22 | 32.41' |




### RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)

| PIPE SIZE | 90° | 45° | 22.5° | 11.25° | VALVE |
|---|---|---|---|---|---|
| 6" | 17' | 7' | 3' | 2' | 46' |
| 8" | 22' | 9' | 4' | 2' | 60' |
| 12" | 30' | 12' | 6' | 3' | 85' |

LENGTH OF RESTRAINED PIPE ON EACH SIDE OF THE BEND. RESTRAIN BRANCH AT FITTING ONLY MINIMUM ATTACHED PIPE LENGTH, RUN SIDE OF TEE: 10.00 FEET.

### RESTRAINED JOINT LENGTH FOR TEES (FT.)

| PIPE SIZE | RUN | BRANCH |
|---|---|---|
| 12"x12"x8" | 8' | 5' |
| 12"x12"x6" | 5' | 1' |
| 6"x6"x6" | 10' | 2' |

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

AS BUILT INFORMATION

| | | |
|---|---|---|
| CONTRACTOR | NEW CONCEPTS | DATE 03 |
| WORK STAKED BY | ALS | DATE 4/02 |
| INVERTS & ACCEPTANCE BY | MGA | DATE 4/03 |
| VERIFICATION BY | ALS | DATE 4/03 |
| DRAWINGS CORRECTED BY | ALS | DATE 4/03 |
| MICRO-FILM INFORMATION | | |
| RECORDED BY | | DATE |
| NO. | | |

BENCH MARKS

STATION "TRANS" IS LOCATED 6 MI. SOUTHWEST OF DOWNTOWN ALBUQUERQUE, IN THE R.O.W. OF A PLAINS ELECTRIC CO-OP TRANS-MISSION LINE. TO REACH STATION FROM INTERSECTION OF CENTRAL AVE. & 98TH ST. SW, GO SOUTH ON 98TH ST. 1.2 MI. TO JUNCTION WITH GIBSON BLVD. & SNOW VISTA BLVD., THEN SOUTHEAST ALONG SNOW VISTA AND CO-OP ELECTRIC TRANSMISSION LINE 0.85 MI. TO PYL ON NUMBERED "52". STATION IS JUST EAST OF THIS POINT.
X = 354,899.45, Y = 1,471,822.67, C-G = 0.99967921(NAD 1927)
"7-H9" LOCATED ON SW COR. OF 98th & SACE. NGVD 29 EL. = 5147.87

SURVEY INFORMATION

| NO. | BY | DATE | FIELD NOTES |
|---|---|---|---|

ENGINEER'S SEAL

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | REVISIONS | |

| | | |
|---|---|---|
| DESIGNED BY | GJK | DATE 05/02 |
| DRAWN BY | NHE | DATE 05/02 |
| CHECKED BY | DMG | DATE 05/02 |

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: EL RANCHO GRANDE I - UNIT 5B
STONY CREEK AVE. SW
UTILITY IMPROVEMENTS

| DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR. |
|---|---|---|---|---|
| APPROVED NOV 27 2002 DESIGN REVIEW COMMITTEE | APPROVED DEC 24 2002 CITY ENGINEER | | | |

| CITY PROJECT NO. | ZONE MAP NO. | SHEET | OF |
|---|---|---|---|
| 645689 | M-9 & N-9 | 16 | 22 |

A2030 EL RANCHO GRANDE 5/ERG5/5BPLANS/2030-5B-UT5/ 09-20-02/ MJR NHE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 6456.89 1603

# CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.

2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPERATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.

3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.

4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.

5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.

6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.

8. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.

9. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.

10. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.

△1 11. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED.

12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.

13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.

15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.

16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.

17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.

18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

△2 19. 48 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.

20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.

22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
   1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
   2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
   3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

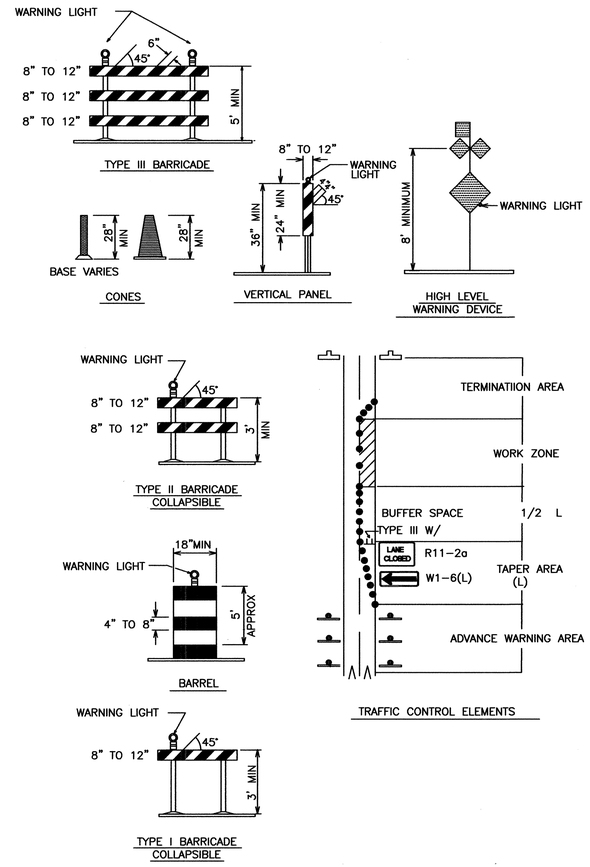
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION, WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.

25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

△3 26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.

△4 27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPTMENT, BOTH PERMANENT AND TEMPORARY.




## LEGEND

- WORK AREA
- BARRICADE – TYPE I, TYPE II, OR BARREL
- BARRICADE – TYPE III
- VERTICAL PANEL
- WARNING SIGN
- D — DISTANCE BETWEEN SIGNS – A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
- FLAGMAN POSITION
- S — SPACING BETWEEN BARRICADES – A DISTANCE MEASURED IN FEET EQUAL TO THE STREET LIMIT OF THE STREET
- L — TAPER LENGTH – SEE CHART BELOW

THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

## TAPER REQUIREMENT

| SPEED LIMIT (MPH) | TAPER LENGTH(L) (FEET) | | | MINIMUM NUMBER OF DEVICES FOR TAPER | MAXIMUM DEVICE SPACING IN FEET | |
|---|---|---|---|---|---|---|
| | 10' LANE | 11' LANE | 12' LANE | | ALONG TAPER | AFTER TAPER |
| 20 | 70 | 75 | 80 | 5 | 20 | 20 |
| 25 | 105 | 115 | 125 | 6 | 25 | 25 |
| 30 | 150 | 165 | 180 | 7 | 30 | 30 |
| 35 | 205 | 225 | 245 | 8 | 35 | 35 |
| 40 | 270 | 295 | 320 | 9 | 40 | 40 |
| 45 | 450 | 495 | 540 | 13 | 45 | 45 |
| 50 | 500 | 550 | 600 | 13 | 50 | 50 |
| 55 | 550 | 605 | 660 | 13 | 55 | 55 |

## RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

| SPEED MILES PER HOUR | MINIMUM DISTANCE IN FEET BETWEEN SIGNS | FROM LAST SIGN TO TAPER |
|---|---|---|
| 0–20 | 10 X SPEED LIMIT | 10 X SPEED LIMIT |
| 25–30 | 10 X SPEED LIMIT | 10 X SPEED LIMIT |
| 30–35 | 10 X SPEED LIMIT | 10 X SPEED LIMIT |
| 40–45 | 10 X SPEED LIMIT | 10 X SPEED LIMIT |
| 50–60 | 10 X SPEED LIMIT | 10 X SPEED LIMIT |

### TAPER CRITERIA

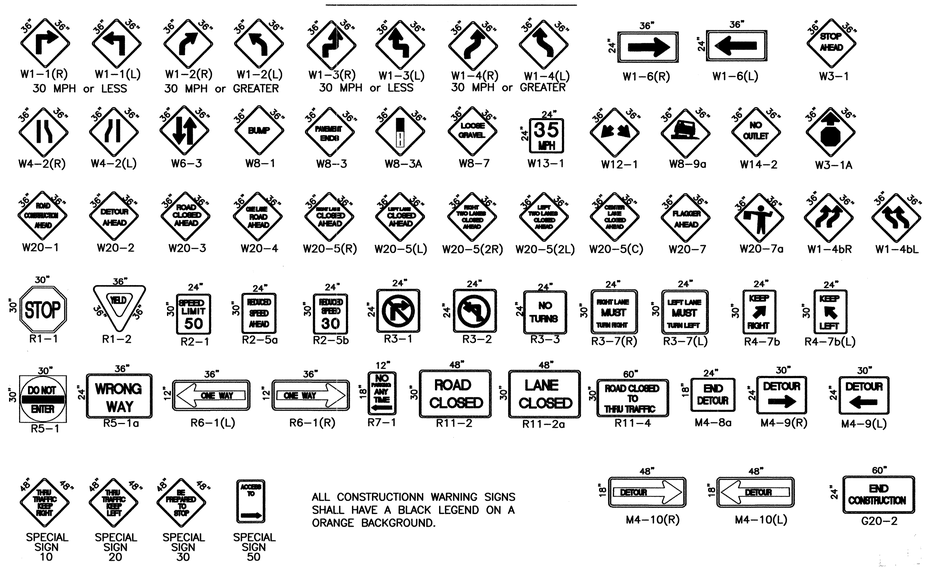
| TYPE OF TAPER | TAPER LENGTH |
|---|---|
| UPSTREAM TAPER: | |
| MERGING TAPER | L MINIMUM |
| SHIFTING TAPER | 1/2 L MINIMUM |
| SHOULDER TAPER | 1/2 L MINIMUM |
| TWO-WAY TRAFFIC TAPER | 100 FEET MAXIMUM |
| DOWNSTREAM TAPERS | 100 FEET PER LANE |

### TAPER LENGTH COMPUTATION

| SPEED LIMIT | |
|---|---|
| 40 MPH OR LESS | $L = \frac{WS^2}{60}$ |
| 40 MPH OR GREATER | $L = W \times S$ |

L = TAPER LENGTH
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH

## SIGN FACE DETAILS




ALL CONSTRUCTIONN WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 64 56. 89 20 03

A2030 EL RANCHO GRANDE 5/ERG5/5B PLANS/2030-5B-CITYSIGN 9-10-02 NHE

AS-BUILT INFORMATION
CONTRACTOR NEW CONCEPTS DATE
WORK STAKED BY AIS DATE 03
INSPECTOR'S ACCEPTANCE BY MCA DATE 4-03
FIELD VERIFICATION BY AIS DATE 5-03
DRAWINGS CORRECTED BY AIS DATE 5-03
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

| NO. | BY | DATE |
|---|---|---|
| | | |

ENGINEER'S SEAL

C.O.A. STANDARD

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| △4 | 9/25/97 | ADD NOTE NO. 27 | J.D.L. |
| △3 | 9/24/97 | REVISED NOTE NO. 26 | J.D.L. |
| △2 | 9/24/97 | REVISED NOTE NO. 19 | J.D.L. |
| △1 | 9/24/97 | REVISED NOTE NO. 11 | J.D.L. |

REVISIONS

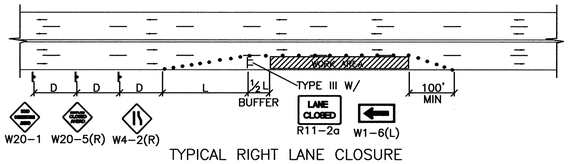
DESIGN
DESIGNED BY BOHANNAN HUSTON DATE 5-97
DRAWN BY BOHANNAN HUSTON DATE 5-97
CHECKED BY BOHANNAN HUSTON DATE 5-97

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

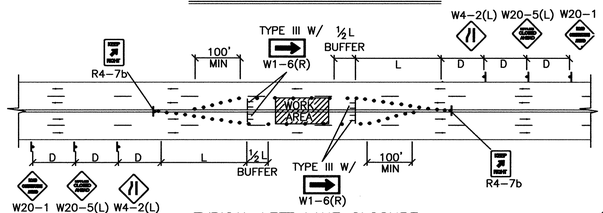
TITLE: EL RANCHO GRANDE I - UNIT 5B
TRAFFIC CONTROL

| DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR. |
|---|---|---|---|---|
| C.O.A. STANDARD | C.O.A. STANDARD | | | |

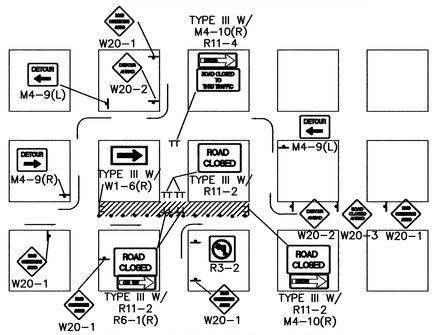
| CITY PROJECT NO. | ZONE MAP NO. | SHEET | OF |
|---|---|---|---|
| 645689 | M-9 & N-9 | 20 | 22 |



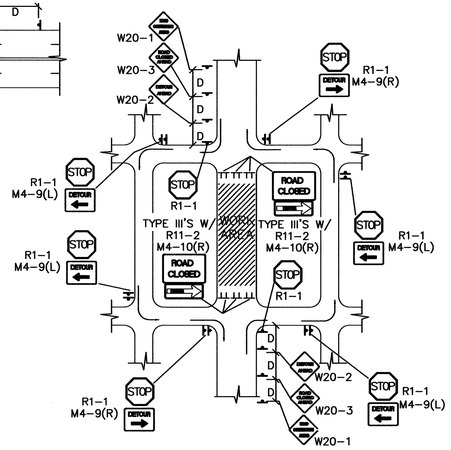

TYPICAL RIGHT LANE CLOSURE




TYPICAL LEFT LANE CLOSURE



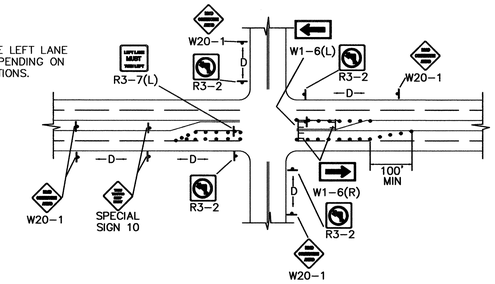

TYPICAL ONE DIRECTION DETOUR




TYPICAL STREET CLOSURE

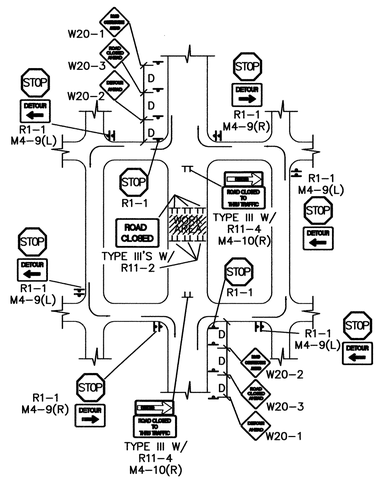
NOTE: (R1-1) BASED ON FIELD CONDITIONS.

NOTE:
MAY REQUIRE LEFT LANE CLOSURE DEPENDING ON FIELD CONDITIONS.



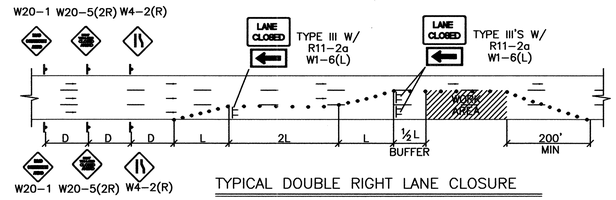

TYPICAL LANE CLOSURE AT INTERSECTION

NOTE: DEPENDING ON WORK ZONE LOCATION.

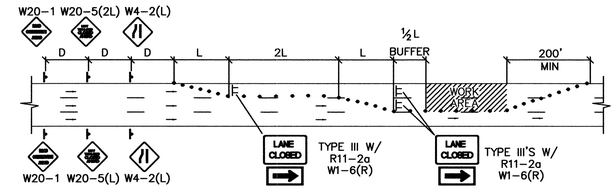



TYPICAL MID-BLOCK CLOSURE

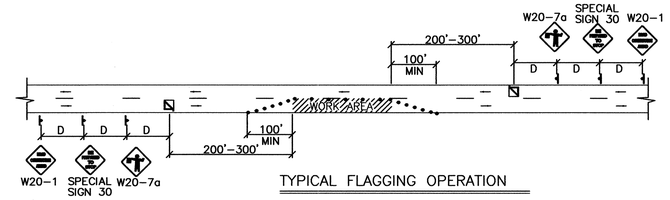
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



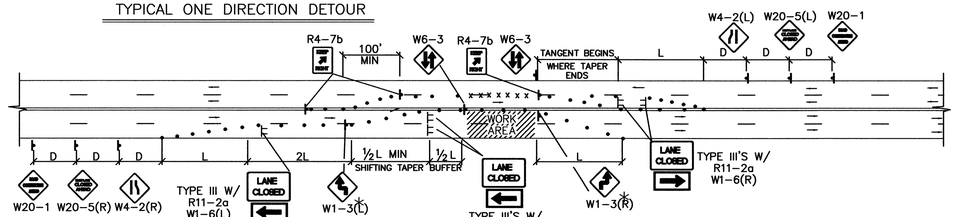

TYPICAL DOUBLE RIGHT LANE CLOSURE



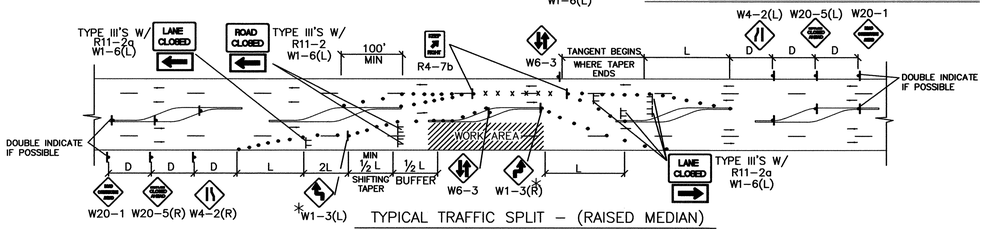

TYPICAL DOUBLE LEFT LANE CLOSURE




TYPICAL FLAGGING OPERATION



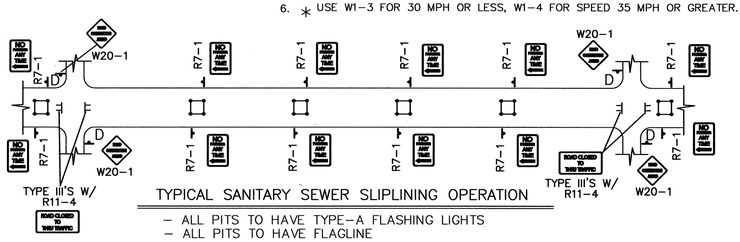

TYPICAL TRAFFIC SPLIT–(PAINTED MEDIAN)




TYPICAL TRAFFIC SPLIT – (RAISED MEDIAN)

TRAFFIC SPLIT NOTES:

1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
2. 1/2 L IS THE MINIMUM DISTANCE FOR SHIFTING TAPERS.
3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
4. MEDIAN REMOVAL SHALL BE REQUIRED IF 1/2 L OR REVERSE CURVE IS NOT SUFFICIENT. MEDIAN REMOVAL SHALL TAKE PLACE BEFORE SPLITS.
5. REDUCED SPEED MAY BE CONSIDERED.
6. * USE W1-3 FOR 30 MPH OR LESS, W1-4 FOR SPEED 35 MPH OR GREATER.



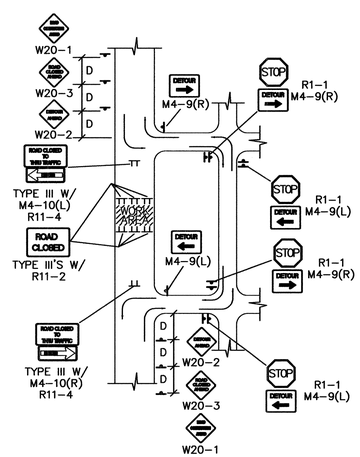

TYPICAL SANITARY SEWER SLIPLINING OPERATION

– ALL PITS TO HAVE TYPE–A FLASHING LIGHTS
– ALL PITS TO HAVE FLAGLINE

GENERAL NOTE:

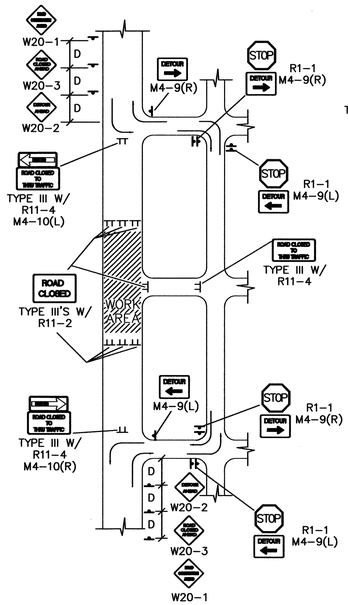
ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

⚠ ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF 36" THIRTY SIX INCHES BY 36" THIRTY SIX INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.



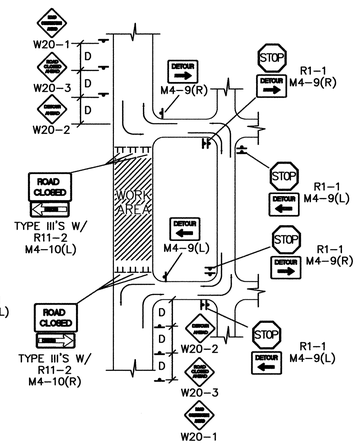

TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.




TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.




TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 64556.89 21103

AS-BUILT INFORMATION

| | | |
|---|---|---|
| CONTRACTOR | New Concepts | DATE 03 |
| WORK STAKED BY | AIS | DATE 4/03 |
| INSPECTOR'S ACCEPTANCE BY | MGA | DATE 4/03 |
| FIELD VERIFICATION BY | AIS | DATE 4/03 |
| DRAWINGS CORRECTED BY | AIS | DATE 4/03 |

MICRO-FILM INFORMATION

| | |
|---|---|
| RECORDED BY | DATE |
| NO. | |

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

| NO. | BY | DATE |
|---|---|---|
| | | |

ENGINEER'S SEAL

C.O.A. STANDARD

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| 1 | 9/24/97 | REVISED GENERAL NOTE | J.D.L. |

REVISIONS

DESIGN

| | | |
|---|---|---|
| DESIGNED BY | BOHANNAN HUSTON | DATE 5-97 |
| DRAWN BY | BOHANNAN HUSTON | DATE 5-97 |
| CHECKED BY | BOHANNAN HUSTON | DATE 5-97 |

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: *EL RANCHO GRANDE I - UNIT 5B*
*TRAFFIC CONTROL*

| DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR. |
|---|---|---|---|---|
| C.O.A. STANDARD | C.O.A. STANDARD | | | |

| CITY PROJECT NO. | ZONE MAP NO. | SHEET | OF |
|---|---|---|---|
| 645689 | M-9 & N-9 | 21 | 22 |

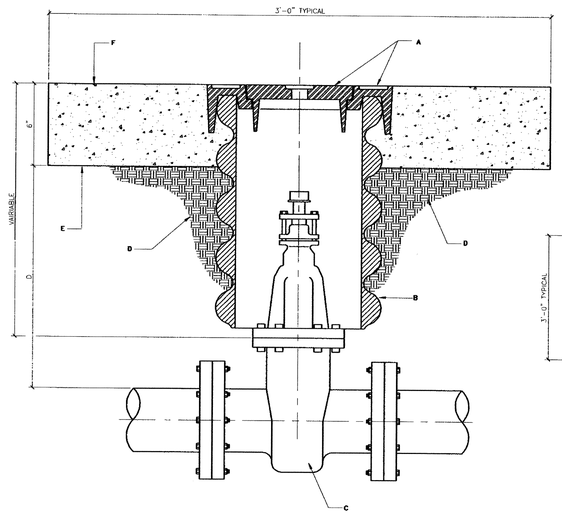
A2030 EL RANCHO GRANDE 5/ERG5/5BPLANS/2030-5B-CITYTRAF 9-10-02 NHE

CITYTRAF.DWG 6-11-97

SCANNED BY MESA REPRO

[BHI-MAIN\PROJECTS\97177\TRANS\DESIGN\SIGNAL\CITYTRAF.DWG

I:\A02JOBS\A2030 EL RANCHO GRANDE 5\ERG5\5B PLANS\2030-5B-cityraf.dwg, Model, 09/10/02 09:49:20 AM, Mark Goodwin & Associates Plotted by NHE




**GENERAL NOTES:**

A VALVE BOX RING AND COVER. SEE DWG. 2328.

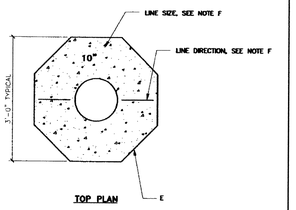
B 10" DIAMETER RIBBED OR CORRUGATED PVC OR PE PIPE WITH SMOOTH INTERIOR.

C NEW OR EXISTING VALVE.

D COMPACTED BACKFILL, SOIL OR BASE COURSE MATERIAL (95% COMPACTION). SEE SECTION 701.

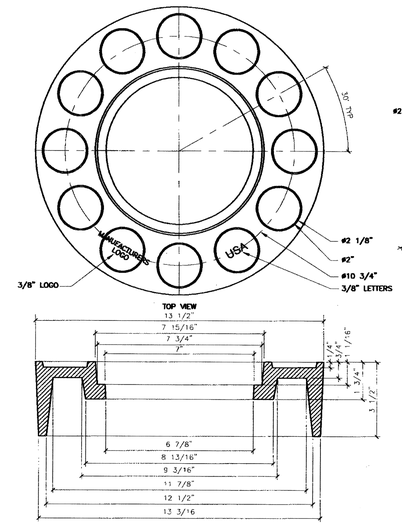
E 3'-6"x3'-6" OCTAGONAL CONCRETE COLLAR. COLLAR IS TO BE TAPERED IN UNPAVED ROADWAYS AND FLUSH IN PAVED ROADWAY. CONCRETE STRENGTH SHALL BE PER SECTION 101 OF THE STANDARD SPECIFICATIONS, LATEST EDITION.

F TOP OF CONCRETE COLLAR SHALL BE STAMPED WITH LINE SIZE AND DIRECTION. MINIMUM LETTER SIZE SHALL BE 3" IN HEIGHT.

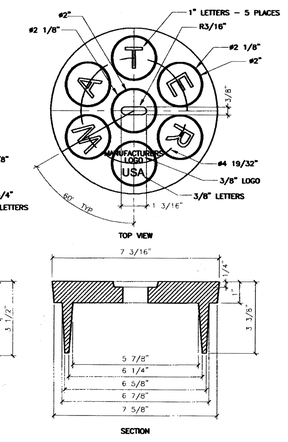



TOP PLAN

| REVISIONS | CITY OF ALBUQUERQUE<br>WATER<br>VALVE BOX<br>DWG. 2326 JANUARY 2002 |
|---|---|




VALVE BOX RING




VALVE BOX COVER

**GENERAL NOTES - RING**

1 ALBUQUERQUE VALVE BOX RING DESIGNED TO ACCEPT AN ALBUQUERQUE VALVE BOX COVER.

2 THE CASTING NUMBER, MANUFACTURER'S LOGO, DATE OF MANUFACTURE AND "USA" SHALL BE CAST IN A CONSPICUOUS LOCATION ON BOTH THE RING AND THE COVER.

3 FILLETS SHALL BE 1/4"R UNLESS OTHERWISE SPECIFIED.

4 A DRAFT ANGLE OF 3°-5° SHALL BE APPLIED UNLESS OTHERWISE SPECIFIED.

5 FINISH: REMOVE EXCESS IRON AND FINS.

6 THIS DETAIL DOES NOT APPLY FOR VALVE BOX RING AND COVER TO BE USED ON REUSE OR NON-POTABLE WATER SYSTEMS.

**GENERAL NOTES - COVER**

1 ALBUQUERQUE VALVE BOX COVER DESIGNED TO FIT INTO AN ALBUQUERQUE VALVE BOX RING.

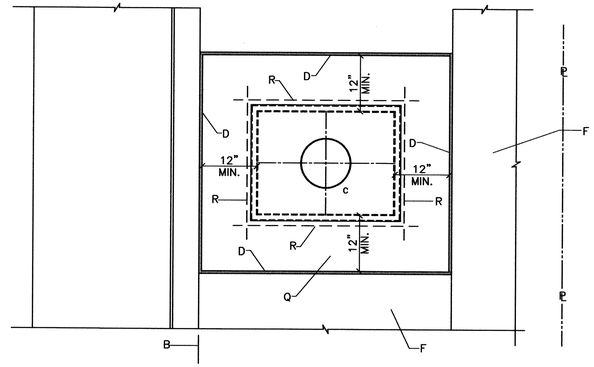
2 THE CASTING NUMBER, MANUFACTURER'S LOGO, DATE OF MANUFACTURE AND "USA" SHALL BE CAST IN A CONSPICUOUS LOCATION ON BOTH THE RING AND THE COVER.

3 FILLETS SHALL BE 1/4"R UNLESS OTHERWISE SPECIFIED.

4 A DRAFT ANGLE OF 3°-5° SHALL BE APPLIED UNLESS OTHERWISE SPECIFIED.

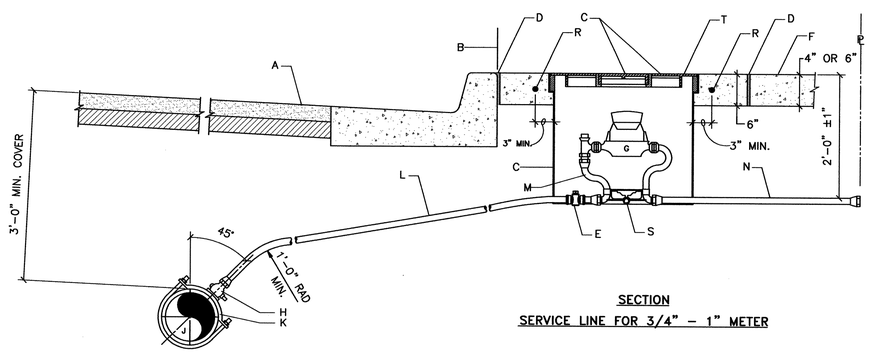
5 FINISH: REMOVE EXCESS IRON AND FINS.

| REVISIONS | CITY OF ALBUQUERQUE<br>WATER<br>RING AND COVER FOR VALVE BOX<br>DWG. 2328 JANUARY 2002 |
|---|---|




PLAN

SEE DWG. 2361 FOR TYPICAL INSTALLATIONS




SECTION

SERVICE LINE FOR 3/4" - 1" METER

**GENERAL NOTES:**

1 THE METER SHALL BE SET UTILIZING A COPPER-SETTER. COPPER-SETTER HEIGHT 10" FOR 1" METER. 7" FOR 3/4" METER.

2 THE VALVE AND METER REGISTER BOX SHALL BE LOCATED UNDER THE LID OPENING. WHERE TWO METERS ARE TO BE INSTALLED IN A SINGLE METER BOX, THE METER REGISTERS SHALL BE WITHIN READING RANGE OF THE LID OPENING.

3 METER BOX LOCATION TO CONFORM TO DWG. 2361.

4 WHEN CONTRACTOR DOES NOT INSTALL METER, CONTRACTOR SHALL PROVIDE REMOVABLE PLUGS FOR END OF COPPER-SETTER.

5 EXISTING CONCRETE TO BE SAWCUT.

**CONSTRUCTION NOTES:**

A STREET SURFACE.

B BACK OF CURB.

C CAST IRON METER BOX, COVER AND LID. SEE DWG. 2368 OR 2369.

D 1/2" EXPANSION JOINT.

E CURB STOP, LOCATE INSIDE METER BOX.

F SIDEWALK OR DRIVEPAD.

G METER. TOP OF METER TO BE 12"-18" BELOW COVER.

H CORP STOP.

J MAIN WATER LINE.

K TAPPING SADDLE.

L COPPER SERVICE LINE.

M COPPER SETTER.

N TAILPIECE TO PROPERTY LINE WITH INSTA-TITE I.P.T. CAPPED FITTING.

Q CONCRETE PAD REQUIRED IN ALL AREAS.

R #4 REBAR CONTINUOUS ALL AROUND METER BOX.

S STABILIZER BAR. 12" LONG X 1/2" DIAMETER GALVANIZED STEEL PIPE.

T METER BOX LID SHALL BE FLUSH WITH SURROUNDING SIDEWALK.

A02030 EL RANCHO GRANDE 5/ERG5/5BPLANS/WAT-DET/9-10-02/ MJR NHE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

26 6456.89 2203

AS BUILT INFORMATION

| | | |
|---|---|---|
| CONTRACTOR | NEW CONCEPTS | |
| WORK STAKED BY | AIS | DATE 03 |
| INSPECTOR'S ACCEPTANCE BY | MGA | DATE 03 |
| FIELD VERIFICATION BY | AIS | DATE 03 |
| DRAWINGS CORRECTED BY | AIS | DATE 03 |

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

SURVEY INFORMATION

FIELD NOTES

| NO. | BY | DATE |
|---|---|---|
| | | |

ENGINEER'S SEAL

C.O.A. STANDARD

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | REVISIONS | |
| | | DESIGN | |

| | | DATE |
|---|---|---|
| DESIGNED BY | G/K | 09/02 |
| DRAWN BY | NHE | 09/02 |
| CHECKED BY | DMG | 09/02 |

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: EL RANCHO GRANDE - UNIT 5B
WATER DETAILS

| DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR. |
|---|---|---|---|---|
| C.O.A. STANDARD | C.O.A. STANDARD | | | |

| CITY PROJECT NO. | ZONE MAP NO. | SHEET | OF |
|---|---|---|---|
| 645689 | M-9&N-9 | 22 | 22 |